456-TR-002-002

LaRC Pre-Release B Testbed Version Description Document (VDD) for the ECS Project, Version 1.1.0

Technical Paper

June 1997

Prepared Under Contract NAS5-60000

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Preface

This document describes version 1.1.0 software configuration for the Pre-Release B Testbed (hereafter referred to as "Testbed") that was demonstrated at each Distributed Active Archive Center (DAAC) site during the period April 17, 1997 until April 23, 1997. Documentation was obtained from tar files listings and interrogation scripts provided by the Configuration Management Office.

Interrogations of hosts were performed for each DAAC (GSFC, LaRC, EDC, and NSIDC) after Testbed demonstrations and turnover to the Maintenance and Operations (M&O) organization. The tar tape was generated for the Testbed release on May 9, 1997. Because of this time separation users will note that there may be minor differences between site configurations and information contained in this document.

The custom code turned over to M&O on a tar tape contains the tar files provided by the System Test Verification and Acceptance Organization. The tar file listing is identical for each DAAC and contains all the configuration files. Unique configuration files (.CFG) exist for each DAAC. These are distinguishable as follows: ..EDC.CFG, ..GSFC.CFG, ..LARC.CFG, and ..NSIDC.CFG.

Discrepancies detected with the COTS software are attributable to update of existing software, addition of new software, and software not on-line at the time of interrogation. During interrogations some extraneous COTS software was found on hosts. This software was not removed from the configuration; however, only COTS required by Testbed is considered part of the delivery.

Testbed will be maintained until Release B.0 is operational. For technical assistance or questions regarding the Testbed baseline call:

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This VDD is not a formal deliverable and does not require Government approval. Changes to this document shall be made by document change notice (DCN) or by complete revision.

Questions regarding distribution should be addressed to:

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Abstract

This document briefly describes the capabilities of the product, provides an inventory of the delivery, lists unresolved problems, and addresses issues such as special operating instructions, and disclaimer notices for public domain software used in the product.

Keywords: CCB, deliver, EOC, ECL, description, instructions, integration, inventory, operations, Pre-Release B, problems, release, software, SSIT, SSI&T, Testbed, tools, TRMM, users, version

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Change Information Page

List of Effective Pages	
Page Number	**Issue**
Title	Original, Version 1.1.0
iii through x	Original, Version 1.1.0
1-1 and 1-2	Original, Version 1.1.0
2-1 and 2-2	Original, Version 1.1.0
3-1 and 3-2	Original, Version 1.1.0
4-1 through 4-26	Original, Version 1.1.0
5-1 through 5-14	Original, Version 1.1.0
A-1 through A-4	Original, Version 1.1.0
B-1 through B-18	Original, Version 1.1.0
C-1 and C-2	Original, Version 1.1.0
D-1 and D-2	Original, Version 1.1.0
E-1 and E-2	Original, Version 1.1.0
AB-1 through AB-4	Original, Version 1.1.0

Document History			
Document Number	**Status/Issue**	**Publication Date**	**CCR Number**
456-TR-002-001	Original, Version 1.0.0	May 1997	
456-TR-002-002	Original, Version 1.1.0	June 1997	

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Contents

4. Product Inventory

5. Non-Conformance Status

Tables

Appendix A. Build Instructions

Appendix B. Pre-Release B Testbed Installation Procedures

Appendix C. Special Operating Instructions

Appendix D. User Feedback Procedures

Appendix E. Operating System Patches

Abbreviations and Acronyms

1. Introduction

1.1 Identification of Document

This is a Version Description Document (VDD) prepared using NASA-STD-2100-91 (NASA-DID-P500, NASA form DD250) as a guide. It is submitted as part of Pre-Release B Testbed delivery for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS), contract number NAS5-60000.

1.2 Scope of Document

This document describes the contents of the Pre-Release B Testbed Version 1.1.0 delivery including any new or modified COTS, custom Pre-Release B Testbed ECS software, and accompanying documentation.

1.3 Purpose and Objectives of Document

The purpose of this document is to describe the contents of the Testbed delivery. It briefly describes the capabilities of the product, provides an inventory of the delivery, lists unresolved problems, and addresses issues such as special operating instructions, system limitations, and disclaimer notices for public domain software used in the product.

1.4 Document Status and Schedule

This VDD is submitted as a final document. Any changes to the product that require a subsequent version of this document to be released will be described in a new VDD.

1.5 Document Organization

The format and contents of this document comply with NASA-DID-P500 and NASA-DID-999 as defined in NASA-STD-2100-91.

- Introduction — Introduces the VDD scope, purpose, objectives, status, schedule and document organization.
- Related Documentation — Provides a bibliography of reference documents for the VDD organized by parent and binding subsections.
- Product Description — Describes the general capabilities and product contents.
- Inventory — Lists product inventory including COTS and custom Pre-Release B Testbed software (contents of tar file) as appropriate.
- Non-conformance Status — Discusses known problems with the Pre-Release B Testbed software that are fixed with this delivery.

- Appendices — Contain supplemental information such as: build/installation instructions, problem reporting, and public software disclaimer notices.
- Abbreviations and Acronyms — Contains an alphabetized list of the definitions for abbreviations and acronyms used in this volume.

2. Related Documentation

2.1 Parent Document

The parent documents are the documents from which the scope and content of this document is derived.

423-42-01	EOSDIS Core System Statement of Work - CN10
423-41-02	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS)
NASA-STD-2100-91	NASA Software Documentation Standard, Software Engineering Program

2.2 Applicable Documents

The following documents are referenced within this document, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this volume.

416-WP-001-001	Implementation Plan for the Pre-Release B Testbed for the ECS Project
420-TD-007-006	Update Pre-Release B Testbed Hardware Software Mapping Baseline for GSFC

2.3 Information Documents

The following documents are referenced herein and, amplify or clarify the information presented in this document. These documents are not binding on the content of the Version Description Document.

205-CD-002-003	Software Developer’s Guide to Preparation Delivery, Integration and Test with ECS
420-TP-010-004	Transition to Release B.0 and B.1
456-TP-015-001	Mission Operation Procedures for the Pre-Release B Testbed for the ECS Project

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3. Product Description

This section describes the product capabilities of the Pre-Release B Testbed ECS software.

3.1 Product Description and General Capabilities

The Pre-Release B Testbed will be installed at four DAAC sites: GSFC, LaRC, EDC, and NSDIC. The Testbed contains a subset of the functionality that was originally planned for Release A, plus some limited additional capabilities that were planned for Release B. Extraneous COTS software was not removed from the configuration, however only COTS required by Testbed is part of the delivery.

The key ECS related mission and operational activity of the LaRC DAAC was to support the TRMM Clouds and Earth's Observations Satellites (CERES). TRMM Release A is replaced with Pre-Release B Testbed. The reduction in scope requires modifications to the software baseline. The functional capabilities supplied by Test Bed include the following:

- Planning and Data Processing Subsystem(PDPS)
- Client Subsystem (CLS)
- Management Subsystem (MSS)
- Communication Subsystem (CSS)
- Release A SDP Toolkit

The following sections (3.1.1 - 3.1.5) provide a brief description of the product capabilities. For further details refer to the ***Implementation Plan for the Pre-Release B Testbed for the ECS Project*** (416-WP-001-001).

3.1.1 Planning and Data Processing Subsystem (PDPS)

Planning and Data Processing components that provide comprehensive SSI&T support including registering PGEs, setting up subscriptions for Planning, entering production requests, developing and activating a production plan, scheduling and monitoring jobs with the AutoSys COTS, managing PGE execution, archive to the data store, QA monitoring of products including use of EOSVIEW for visualization. The PDPS capabilities are summarized in the following:

- Production Request Editor
- Production Planning Workbench
- Resource Planning Workbench
- Subscription Editor
- Subscription Manager

3.1.2 Client Subsystem (CLS)

The CLS capability includes all functions of EOSView.

3.1.3 Management Subsystem (MSS)

MSS software contains the following COTS software:

- ClearCase
- HP Openview (HPOV)
- Distributed Defect Tracking System (DDTS)

3.1.4 Communication Subsystem (CSS)

CSS software contains the CSS Infrastructure. The functions available by platform are:

- SUN -all functions except ACL Security
- HP - all functions except ACL Security
- SGI - only as needed for Testbed
- ***Note:*** ACL-stubbed in

3.1.5 Release A SDP Toolkit

All Toolkit functions are supported in Testbed. The Toolkit tar files delivered with the Pre-Release B Testbed are listed below:

SDPTK5.1v1.00-Aadata.README
SDPTK5.1v1.00-AAdata.tar.Z
SDPTK5.1.1p2.README
SDPTK5.1.1p2.tar.Z

4. Product Inventory

Delivery of Testbed generally consists of commercial-off-the shelf (COTS) software, Shareware software and custom ECS software. This section provides details of these components.

4.1 Inventory of Materials

4.1.1 Documentation

No additional documents are being provided with this VDD.

4.1.2 Archive Tape

The following magnetic tape is used to archive the delivered baseline configuration of the developed software.

904-PR-038-002
Tape label: ECS Pre-Release B Test Bed
Distribution Date: May 9, 1997
>>> 5.0gbyte format (high density) <<<
Filenames: ECS_COPYRIGHT.TXT
HDF4.0r2.tar.Z
HDF-EOS1.5v1.00.tar.Z
SDPTK5.1v1.00-Aadata.README
SDPTK5.1v1.00-AAdata.tar.Z
SDPTK5.1.1p2.README
SDPTK5.1.1p2.tar.Z
COMMON_TEST_BASE_043097.tar.Z
CSS_TESTBED_BASE_043097.tar.Z
IOS_TESTBED_BASE_043097.tar.Z
MSS_TESTBED_BASE_043097.tar.Z
PDPS_DPS_050597.tar.Z
PDPS_IMF_050597.tar.Z
PDPS_PLS_050597.tar.Z
PDPS_SGI_PreProcess.tar.Z

4.1.3 Utility and Support Software

The Utility and Support Software are included as part of the Testbed Custom Software (refer to section 4.2.1).

4.1.4 COTS Software Inventory

Table 4-1 summarizes the deployed COTS software at GSFC. Refer to ***Pre-Release B Testbed Hardware-Software Mapping Baseline for LaRC*** (420-TD-007-006) for the physical mapping of Pre-Release B Testbed COTS hardware to COTS software.

Table 4-1. COTS Software Inventory List (LaRC)

Identification:	Component Description	Version	Patches	Mfr	Part Number
SPRHW-LARC-6 (sprl6sgi)	Ada	6.2.3			
	Autosys Remote Agent	3.2	none	AutoSys	
	Builder Xcessory	3.5.1	patch 5	-	
	CaseVision	2.6.4	none	-	
	ClearCase Cleartool	2.1	none	Pure-Atria	
	ClearCase Client	2.1	none	Pure-Atria	
	ClearCase MVFS	2.1+	none	Pure-Atria	
	Compiler, C Power C Standard ExecutionEnvironment	7.1** 7.1** 6.2	none none none	SGI SGI SGI	
	Compiler, C++ Standard Execution Environment	7.1** 6.2	none	SGI	
	Compiler, Fortran 77 Standard Execution Environment	7.1** 6.2	none none	SGI SGI	
	Compiler, Fortran 90 Standard Execution Environment Power Fortan 90	7.1** 6.2 7.1**	none none none	SGI SGI SGI	
	Compiler, Fortran NAGware-F90	2.2	none	NAG	
	DCE Client	1.0.3a	none	Transarc	
	GUI Support Tools bx EnhancementPak graphpak - Not Found	 BX3.5.1 2.5	 Patch 5 none	 - -	
	IDL	5.0**	none	RES	
	International Math and Science Library (IMSL)	2.0 (C) 3.0 Fortran	none	Visual Numerics	
	Netscape Browser	2.01	none	Netscape	
	Networker	4.1.3	none	Legato	
	Motif	1.2.4	none	Open Software Foun-dation (OSF)	

** In the baseline, but version # is not correct

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	Operating System IRIX64 Version 03131016	Release 6.2	See Appendix E	SGI	
	Purify	3.2	none	Pure- Atria	
	Rogue Wave Tool.h++ dbtools.h++	 6.1 1.1.0	 none nooe	Rogue Wave	
	SGI Wrappers	1.2	none	SGI	
	SNMP Agent	1.7	none	-	
	Sybase Client	10.0.2	none	Sybase	
	TCPWrapper	7.3	none	HP	
	Tripwire	1.2	none	HP	
	X11R6 software	3.5 based on X11R6	none	-	
AITHW-LARC-1 (aitl1sun)	Ada	2.1.1		-	
	AutoSys	3.2	none	-	
	AutoSys Remote Agent	3.2	none	-	
	AutoXpert	1.0	none	-	
	ClearCase Cleartool	2.1	none	Atria	
	ClearCase Client	2.1	none	Atria	
	ClearCase MVFS	2.1+	none	Atria	
	Common Desktop Environment (CDE)	-	-	cde	
	Compiler, C	3.0.1	none	SUN	
	Compiler C++	4.0.1	none	SUN	
	Compiler FORTRAN 77	SC3.0.1	none	Sun	
	Compiler NAGware - F90	2.1	-	NAG	
	DCE Client	1.0.3a	none	Transarc	
	FlexLM software	No Version File	-	GLOBE- trotter	
	Forcheck	V11.13	none	SUN	
	GUI Support Tools Builder Xcessory graphpak EnhancementPak	 BX3.5.1 2.5	 Patch 5 none		
	IDL	4	none	RES	
	International Math and Science Library (IMSL)	2.0 (C) 3.0 Fortran	none none		
	JetAdmin (part of OS)	D.00.37	none	HP	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	Motif	1.2.4	none	OSF	
	Netscape Browser	2.02	none	Netscape Comms. Corp	
	Networker	4.1.3	none	Legato	
	OODCE Libraries	1.0.3a	none	HP	
	Operating System SunOS	5.4 (aka Solaris2.4)	See Appendix E	SUN	
	Pure Coverage	1.2	none	Pure Software	
	Purify	3.2	none	Pure-Atria	
	Rogue Wave tool.h++ dbtools.h++	6.1 6.1 1.1.	 none none	Rogue Wave	
	SNMP Agent (Peer)	1.7	-	-	
	SparcWorks ProWorks (Answer Book) TeamWare (Answer Book)	SW3.0.1 3.0.1 1.0.3	none none none	SUN	
	SQR - Workbench	3.0	none		
	Sun Wrappers	1.2	none	SUN	
	Sybase Client	10.0.2	none	Sybase	
	TCP Wrappers	1.2	none	-	
	Tripware	1.2	none	HP	
	WABI MS Office Std Edition MS Windows	2.1 Rev D 4.2 3.11	none none none	SCO MS MSC	
	X11R6	3.5 based on X11R6	none	-	
AITHW-LARC-2 (aitl2sun)	Ada	2.1.1			
	AutoSys	3.2	-	-	
	AutoSys Remote Agent	3.2	none	PLT	
	AutoXpert	1.0	none	-	
	CDE	1.0	none	cde	
	ClearCase Client cleartool MVFS	2.1 2.1 2.1+	none	Atria	
	Compiler C++	4.0.1	none	SUN	
	Compiler C	3.0.1	none	SUN	
	Compiler Fortran 77	SC3.0.1	none	SUN	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	Compiler NAG F90	-	-	-	
	DCE Client	1.0.3a	none	SUN	
	DDTS	3.2.1	none	Pure-Atria	
	FlexLM	No version file	-	GLOBE-trotter	
	Forcheck	V11.13	none	LDU	
	IDL	4	none	RES	
	IMSL	2.0 (C) 3.0 Fortran	none none	-	
	JetAdmin (part of OS)	D.00.37	none	HP	
	Motif	1.2.4	none	OSF	
	Netscape Browser	2.02	none	Netscape Comms. Co.	
	Networker Client	4.1.3	none	Legato	
	OODCE Libraries	1.0.3a	none	HP	
	Rogue Wave tool.h++ dbtools.h++	 6.1 1.1.0	 none none	Rogue-Wave	
	SNMP Agent	1.7	none	-	
	SPARKWorks Tools ProWorks (AnswerBook) TeamWare (AnswerBook)	3.0.1 3.0.1 1.0.3	none none none	SUN	
	SQR - Workbench	3	none	SUN	
	SunOS	5.4 (aka Solaris 2.4)	See Appendix E	SUN	
	Sybase Client SQL Server-Open Client C-SQL C-SA Companion -SQL	10.0.2/10.0.2.6 10.0.2	none none	SYB	
	TCPWrappers	7.3	none	HP	
	Tripware	1.2	none	HP	
	WABI MS Office Std Edition MS Windows	2.1 4.2 3.11	none none none	SCO MS MSC	
	X11R6 software	3.5 based on X11R6	none	-	
PLNHW-LARC-1 plnl1sun	AutoSys	3.2	none	PLT	
	AutoSys DB Server	-	-	PLT	
	AutoSys Event Processor	3.2	none	PLT	
	AutoSys Remote Agent	3.2	none	PLT	
	AutoXpert	1.0	none	PLT	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	ClearCase Client cleartool MVFS	2.1 2.1 2.1+	none	Atria	
	Common Desktop Environment (CDE)	1.0	none	SUN	
	Compiler C	3.0.1	none	SUN	
	Compiler C++	4.0.1	none	SUN	
	Compiler FORTRAN 77	SC3.0.1	none	-	
	DCE Client	1.0.3a	none	SUN	
	DCE Time Server	-	-	-	
	FlexLM	-	-	-	
	GUI Support Tools bx graphpak epak (Enhancement Pak)	 BX3.5.1 - 2.5	 Patch 5 - none	 - - -	
	IDL	4	-	-	
	JetAdmin (part of OS)	D.00.37	-	HP	
	Motif	1.2.4	-	OSF	
	net.h++	-	-	Rpgue-Wave	
	Netsdcape Browser	2.02	none	Netscape Comms. Corp.	
	Netscape Commerce Server	1.1.2	none	Netscape	
	Networker Client	4.1.3	none	Legato	
	OODCE Libraries	1.0.3a	-	HP	
	Pure Coverage	1.2	none	Pure-Atria	
	Purify	3.2	none	Pure-Atria	
	Rogue Wave tool.h++ dbtools.h++	 6.1 1.1.0	 none none	Rogue Wave	
	SPARKWorks ProWorks (Answer Book) TeamWare (Answer Book)	3.0.1 3.0.1 1.0.3	none none none	SUN	
	SunOS	5.4 (aka Solaris 2.4)	See Appendix E	SUN	
	Sun Wrappers	1.2	-	SUN	
	SybaseSQL Server	10.0.2/10.0.2.6	none	Sybase	
	TCPWrappers	7.3	none	HP	
	Tripware	1.2	none	HP	
	WABI MS Office Std Edition MS Windows	2.1 4.2 3.11	none none none	SCO MS MSC	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	X11R6	3.5 based on X11R6	none	-	
PLNHW-LARC-2 plnl2un	AutoSys	3.2	none	PLT	
	AutoSys Remote Agent	3.2	none	PLT	
	AutoXpert	1.0	none	PLT	
	DCE Client	1.0.3a	none	SUN	
	JetAdmin (part of OS)	D.00.37	none	HP	
	Motif	1.2.4	none	OSF	
	Networker Client	4.1.3	none	Legato	
	OODCE Libraries	1.0.3a	none	HP	
	Operating System, SunOS	5.4 (aka Solaris 2.4)	See Appendix E	SUN	
	Rogue Wave tool.h++ dbtools.h++	 6.1 1.1.0	 none none	Rogue Wave	
	SNMP Agent	1.7	none	-	
	SUN Wrappers	1.2	none	SUN	
	Sybase Client	10.0.2/10.0.2.6	none	Sybase	
	TCPWrappers	7.3	none	HP	
	Tripwire	1.2	none	HP	
	X11R6 software	3.5 based on X11R6	none	-	
MSS-LARC-3 (mssl3sun)	CDE	1.0	-	cde	
	ClearCase-Server	2.1	2.1-190, 203,244, 252,253, 282,285, 290	Atria	
	ClearCase Cleartool	2.1	none	Atria	
	ClearCase MVFS	2.1	none	Atria	
	Compiler C	3.0.1	none	SUN	
	Compiler C++	4.0.1	none	SUN	
	Compiler FORTRAN 77	SC3.0.1	none	SUN	
	DCE Client	1.0.3a	none	SUN	
	DDTS	3.2.1	none	Pure-Atria	
	FlexLM	No version file	-	-	
	GUI Support Tools bx graphpak (not found) epak (Enhancement Pak)	 BX3.5.1 - 2.5	 Patch 5 - none	-	
	JetAdmin (part of OS)	D.00.37	none	HP	
	Motif	1.2.4	none	OSF	
	Netscape Browser	2.02	none	Netscape Comms. Corp	
	Networker	4.1.3	none	Legato Systems	
	OODCE Libraries	1.0.3a	none	HP	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	Pure Coverage	1.2	none	Pure-Atria	
	Purify	3.2	none	Pure-Atria	
	Rogue Wave tool.h++ dbtools.h++	 6.1 1.1.0	 none none	Rogue Wave	
	SNMP Agent	1.7	none	-	
	SPARKWorks ProWorks (AnswerBook) Teamware (AnswerBook)	 3.0.1 1.0.3	 none none	SUN	
	SUN Wrappers	1.2	none	SUN	
	SunOS	5.4 (aka Solaris 2.4)	See Appendix E	SUN	
	Sybase Client	10.0.2/10.0.2.6	none	Sybase	
	TCP Wrappers	7.4	none	HP	
	Tripwire	1.2	none		
	WABI MS Office Std Edition MS Windows	2.1 Rev D 4.2 3.11	none none none	SCO MS MSC	
	X11R6 software	rev. X11R6	none	-	
MSS-LARC-1 (mssl1sun)	CDE	1.0	none	SUN	
	ClearCase Cleartool	2.1	none	Pure-Atria	
	ClearCase Client	2.1	2.1-190, 203,244, 252,253, 282,285, 290	Pure-Atria	
	ClearCase MVFS	2.1	none	Pure-Atria	
	Compiler C	SC3.0.1	none	SUN	
	Compiler C++	4.0.1	none	SUN	
	Compiler FORTRAN 77	SC3.0.1	none	SUN	
	DCE Client	1.0.3a	none	SUN	
	DDTS	3.2.1	none	Pure-Atria	
	FlexLm (License server)	No version file	-	GLOBE-trotter	
	Intelligent Query (IQ Software)	5.1.00	none	ISC	
	JetAdmin (part of OS)	D.00.37	none	HP	
	Motif	1.2.4	none	OSF	
	netls	-	-	-	
	Networker Client	4.1.3	none	Legato	
	OODCE Libraries	1.0.3a	none	HP	
	Rogue Wave toolkit.h++ dbtools.h++	 6.1 1.1.0	 none none	Rogue-Wave	
	SNMP Agent (Peer)	1.7	-	-	
	SPARKWorks ProWorks (AnswerBook) Teamare (AnswerBook)	 3.0.1	none	SUN	
	SUN Wrappers	1.2	-	SUN	
	SunOS	5.4 (aka solaris 2.4)	See Appendix E	SUN	
	Sybase Client	10.0.2/10.0.2.6	none	SYB	
	TCPWrappers	7.3	none	HP	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	Tripwire	1.2	none	-	
	X11R6 software	3.5 based on X11R6	none	-	
MSS-LARC-4 (mssl4hp)	ClearCase Client (full model)	2.1	none	Pure-Atria	
	Compiler C (platform specific)	-	-	HP	
	Compiler C++ (platform specific)	-	-	HP	
	DCE Application Dev. Kit	1.0.3a	none	HP	
	DCE -Client	DCE/9000 1.2.1	none	HP	
	DCE Time Server	-	-	-	
	DCE Toolkit	-	-	-	
	GUI Support bx epak graphpak	 3.5.1 2.5 1.0	 Patch 5 none none	 - - -	
	HP Wrappers	1.2	none	HP	
	HPOV (out-of box)	4	none	HP	
	JetAdmin (part of OS)	C.02.33	none	HP	
	Motif1.1 Motif1.2	10.1 11	none none	OSF	
	Netscape Browser	2.02	none	Netscape Comms. Corp.	
	OODCE Libraries HP DCE/9000	 1.2.1	 PHSS_6921 PHSS_6922	HP	
	Operating System: HP-UX Release A.09.05	Version A	See Appendix E	HP	
	Perl	5	-	-	
	Pure Coverage	1.2	none	Pure-Atria	
	Purify	3.2	none	Pure-Atria	
	Rogue Wave tool.h++ dbtool.h++	 6.1 1.1.0	 none none	Rogue Wave	
	Softbench	4.0	none	HP	
	SNMP Agent (Peer)	1.7	none	-	
	Sybase Client	10.0.3	none	Sybase	
	TCPWrappers	7.3	none	HP	
	Tripwire	1.2	none	HP	
	WABI Office MS Office Std Edition MS Windows	2.1 Rev D 4.2 3.11	none none none	SCO MS MSC	
	X11R6 software	3.5 based on X11R6	none	-	
	Xwindow System	Ver. 11 HP-UX 9.	None	OSF	
CSS-LARC-1 (cssl1hp)	DCE Application Dev. Kit	1.0.3a	none	HP	
	DCE Client	DCE/9000 1.2.1	none	-	
	DCE Replica Library	-	-	-	
	DCE Time Server	-	-	-	
	DNS Slave	-	-	-	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	GUI Support Builder Xcessory EnhancementPak graphpak	 3.5.1 2.5 -	 Patch 5 none -	-	
	HP Softbench	-	-	HP	
	HP Wrappers	1.2	-	HP	
	JetAdmin (part of OS)	C.02.33	none	HP	
	Motif1.1 Motif1.2	10.1 11	none none	OSF	
	net.h++	-	-	-	
	Netscape Browser	2.02	none	Netscape Comms. Corp	
	Networker Client	4.1.3	none	Legato	
	NIS Slave	-	-	HP	
	OODCE Libraries HP DCE/9000	 1.2.1	 PHSS_6921 PHSS_6922	HP	
	Operating System: HP-UX Release A.09.05	Version A	See Appendix E	HP	
	Pure Coverage	1.2	none	Pure-Atria	
	Purify	3.2	none	Pure-Atria	
	RogueWave tool.h++ dbtool.h++	 6.1 1.1.0	 none none	Rogue Wave	
	SNMP Agent	1.7	none	-	
	Sybase Client	10.0.3	none	Sybase	
	TCP Wrappers	7.3	none	HP	
	Tripwire	1.2	none	HP	
	X11R4	-	-	-	
	X11R5 software	-	-	-	
	X11R6	-	-	-	
ACMHW-LARC-4 (acml4sgi)	Compiler C++	4.0	none	SGI	
	DCE Client	1.0.3a	none	-	
	DCE Executive	1.0	-	SGI	
	DNS Master Mail Server		-		
	DNS Slave (GSFC) check		-		
	GUI Support bx epak graphpak (not found)	 3.5.1 2.5	 Patch 5		
	Motif	IRIX/IM 1.2.3-5.3	none	OSF	
	netls (License Server)		-		
	Network File System (NFS) Network File System Version 3	5.3 5.3	none	SGI	
	Networker client	-	none	Legato	
	Operating System, IRIX Release 5.3	Version 12200158	See Appendix E	SGI	
	RogueWave tool.h++ dbtool.h++	 6.1 1.1.0	 none none	Rogue Wave	
	SGI Wrappers	-	-	SGI	

Table 4-1. COTS Software Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
	SNMP Agent	1.7	-	-	
	TCPwrapper	-	-	-	
	Tripwire	-	-	-	
	X11R6 software	3.5 based on X11R6	none	OSF	

4.1.5 Shareware Inventory

Table 4-2 summarizes the deployed Shareware at LaRC EOC. Refer to ***Pre-Release B Testbed Hardware-software Mapping Baseline for LaRC*** (420-TD-007-006) for the physical mapping of Testbed hardware to Shareware.

Table 4-2. COTS Shareware Inventory List (LaRC)

Identification:	Component Description	Version	Patches	Mfr	Part Number
SPRHW-LARC-6 sprl6sgi	Acrobat Reader	2.1	None	Adobe Systems inc.	
	Ghostview	1.5	Nnoe	GNU	
	Kerberos Client	CNS96q1	None	MIT	
	Kftp	CNS96q1	None		
AITHW-LARC-1 (aitl1sun)	Acrobat Reader (UNIX version)	1.0	None	Adobe Systems Inc.	
	Emacs	19.28	None		
	Enscript	1.13	None	SUN	
	Ghostview	1.5	None	GNU	
	Kerberos Client	CNS96q1	None	MIT	
	Kftp	CNS96q1			
	Mosaic	2.7b1	None	NCSA	
	Xedit	1.0	None		
	Zmail	3.2	None		
AITHW-LARC-2 (aitl2sun)	Acrobat Reader, Unix version	1.0	None	Adobe Systems Inc.	
	Emacs	19.28	None		
	Enscript	1.13	None	SUN	
	Ghostview	1.5	None	GNU	
	kerberos Client	CNS96q1	None	MIT	
	kftp	CNS96q1		MIT	
	Mosaic	2.7bl	None	NCSA	
	Xedit	1.0	None	SUN	
	Zmail	3.2	None		

Table 4-2. COTS Shareware Inventory List (LaRC) (continued)

Identification:	Component Description	Version	Patches	Mfr	Part Number
PLNHW-LARC-1 plnl1sun	Acrobat Reader	1.0	None	Adobe Systems	
	Emacs	19.28	None		
	Enscript	1.13	None	SUN	
	Ghostview	1.5	None		
	Mosaic	2.7b1	None	NCSA	
	xedit	1.0	None	SUN	
	Z-mail	3.2	None		
PLNHW-LARC-2 plnl2sun	None				
MSS-LARC-1 (mssl1sun)	Acrobat Reader	1.0	None	Adobe systems	
	Zmail	3.2	None		
MSS-LARC-3 (mssl3sun)	Acrobat Reader	1.0	None	Adobe Systems	
	Emacs	19.28	None		
	Enscript	1.13	None	SUN	
	GhostView	1.5	None	GNU	
	Mosaic	2.7b1	None	NCSA	
	Xedit	1.0	None		
MSS-LARC-4 (mssl4hp)	Ghostview	1.5	None	GNU	
	Zmail	3.2	None		
CSS-LARC-1 (cssl1hp)	Ghostview	1.5	None	GNU	
ACMHW-LARC-2 (aacml14sgii)	Ghostview	1.5	None	GNU	

4.2 Pre-Release B Testbed Custom Software

The custom software consists of a number of components. The software is available for the following architectures:

- SUN (Solaris, SunOS)
- HP
- SGI 32 bit
- SGI 64-bit

4.2.1 Pre-Release B Testbed Custom Software Version 1.1.0 Tar File Listing

The following listing provides the files generated by the build process and the installation process.

```
./
./CUSTOM/
```

./CUSTOM/data/
./CUSTOM/data/COM/
./CUSTOM/data/COM/app-defaults/
./CUSTOM/data/COM/app-defaults/EcsMotif
./CUSTOM/data/COM/helpFiles/
./CUSTOM/data/COM/helpFiles/EcsHelp.bfh
./CUSTOM/data/COM/helpFiles/EcsHelp.bmh
./CUSTOM/docs/
./CUSTOM/docs/WWW/
./CUSTOM/docs/WWW/COM/
./CUSTOM/cfg/
./CUSTOM/lib/
./CUSTOM/lib/COM/
./CUSTOM/lib/COM/libEcUtSh.so
./CUSTOM/lib/COM/libEcUtNoPFSh.so
./CUSTOM/lib/COM/libEcUtMiscSh.so
./CUSTOM/lib/COM/libEcUtFactorySh.so
./CUSTOM/lib/COM/libEcUrSh.so

./
./CUSTOM/
./CUSTOM/data/
./CUSTOM/data/CSS/
./CUSTOM/docs/
./CUSTOM/docs/README_RELA_CSS_090996
./CUSTOM/docs/README_RELA_CSS_092696
./CUSTOM/docs/WWW/
./CUSTOM/docs/WWW/CSS/
./CUSTOM/cfg/
./CUSTOM/lib/
./CUSTOM/lib/CSS/
./CUSTOM/lib/CSS/libEcSeCmiSh.so
./CUSTOM/lib/CSS/libEcCfSh.so
./CUSTOM/lib/CSS/libCsCreateDirectorySh.so
./CUSTOM/lib/CSS/libEcDnDirSh.so
./CUSTOM/lib/CSS/libCsEmMailRelASh.so
./CUSTOM/lib/CSS/libCsFtFTPRelASh.so
./CUSTOM/lib/CSS/libCsFtFTPSchedObjSh.so
./CUSTOM/lib/CSS/libEcSyFtpSyslogSh.so
./CUSTOM/lib/CSS/libeventSh.so
./CUSTOM/lib/CSS/libeventnodceSh.so
./CUSTOM/lib/CSS/libagenteventSh.so
./CUSTOM/lib/CSS/libEcDcMsgPsng1Sh.so
./CUSTOM/lib/CSS/libEcDcNotifySh.so
./CUSTOM/lib/CSS/libEcDcDSyncSh.so
./CUSTOM/lib/CSS/libEcDcMsgPsng1_unix_socketSh.so
./CUSTOM/lib/CSS/libEcPfSh.so
./CUSTOM/lib/CSS/libEcAclSh.so
./CUSTOM/lib/CSS/libLogCliErrorSh.so
./CUSTOM/lib/CSS/libEcSeAuthnSh.so
./CUSTOM/lib/CSS/libEcSeServerKeyMgmtSh.so
./CUSTOM/lib/CSS/libEcSeLoginSh.so
./CUSTOM/lib/CSS/libEcSeLoginCtxSh.so
./CUSTOM/lib/CSS/libEcSeSecuritySh.so
./CUSTOM/lib/CSS/libEcSeUtilityDbSh.so
./CUSTOM/lib/CSS/libEcSeUtilityCtSh.so
./CUSTOM/lib/CSS/libEcSeSybSecuritySh.so

./CUSTOM/lib/CSS/libEcPtSpecialLockSh.so
./CUSTOM/lib/CSS/libEcTiTimeSh.so
./CUSTOM/bin/
./CUSTOM/bin/CSS/
./CUSTOM/bin/CSS/EcSeAuthnProg_sun5
./CUSTOM/bin/CSS/ftp_popen
./CUSTOM/bin/CSS/CsGwIntGatewaymain
./CUSTOM/bin/CSS/CsGwDlvGatewaymain
./CUSTOM/bin/CSS/CsGwIncomingGatewayMain
./CUSTOM/bin/CSS/CsGwDeliveryGatewayMain
./CUSTOM/bin/CSS/sdpf_srv_sun5
./CUSTOM/bin/CSS/EcAclServer
./CUSTOM/bin/CSS/EcsAclEdit
./CUSTOM/bin/CSS/EcSeLoginProg

./
./CUSTOM/
./CUSTOM/data/
./CUSTOM/data/IOS/
./CUSTOM/data/IOS/IoAdClient.cnfg
./CUSTOM/data/IOS/IoAdCommonSite.cnfg
./CUSTOM/data/IOS/IoAdPassword.sun5.kt
./CUSTOM/data/IOS/IoAdProgrammers.cnfg
./CUSTOM/data/IOS/IoAdRand.data
./CUSTOM/data/IOS/IoAdServer.PCFG
./CUSTOM/data/IOS/IoAdServer.sun5.cfg
./CUSTOM/data/IOS/IoAdServerApp.ACFG
./CUSTOM/data/IOS/IoAdSiteSpecific.cnfg
./CUSTOM/data/IOS/checksubs.rcl
./CUSTOM/data/IOS/create_ios_schema.sql
./CUSTOM/data/IOS/createsubs.rcl
./CUSTOM/data/IOS/drop_ios_schema.sql
./CUSTOM/data/IOS/dropref.rcl
./CUSTOM/data/IOS/dropsubs.rcl
./CUSTOM/data/IOS/grant_esod_permission.sql
./CUSTOM/data/IOS/grant_pub_permission.sql
./CUSTOM/data/IOS/grant_sys_maint.sql
./CUSTOM/data/IOS/repdef.rcl
./CUSTOM/data/IOS/set_replicate.sql
./CUSTOM/data/IOS/site_GSFC.sql
./CUSTOM/data/IOS/site_LaRC.sql
./CUSTOM/docs/
./CUSTOM/docs/IOS_010397
./CUSTOM/docs/README_IOS_102396
./CUSTOM/docs/WWW/
./CUSTOM/docs/WWW/IOS/
./CUSTOM/docs/WWW/IOS/BlueBar.gif
./CUSTOM/docs/WWW/IOS/Check.gif
./CUSTOM/docs/WWW/IOS/IoAdAttribute.gif
./CUSTOM/docs/WWW/IOS/IoAdAttributesValid.html
./CUSTOM/docs/WWW/IOS/IoAdCommonSite.cnfg
./CUSTOM/docs/WWW/IOS/IoAdEos.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodBanner.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodContribOver.html
./CUSTOM/docs/WWW/IOS/IoAdEsodContributions.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodContributions.html
./CUSTOM/docs/WWW/IOS/IoAdEsodEntryCreate.html

./CUSTOM/docs/WWW/IOS/IoAdEsodEntryDelete.html
./CUSTOM/docs/WWW/IOS/IoAdEsodEntryUpdate.html
./CUSTOM/docs/WWW/IOS/IoAdEsodFineGrainSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodFineGrainSearch.html
./CUSTOM/docs/WWW/IOS/IoAdEsodFullTextSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodGeneralHelp.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodGroupIndex.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodHelp.html
./CUSTOM/docs/WWW/IOS/IoAdEsodHelpThisPage.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodHome.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodHome.html
./CUSTOM/docs/WWW/IOS/IoAdEsodIndexSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodProductPlanning.html
./CUSTOM/docs/WWW/IOS/IoAdEsodScienceSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodServicePlanning.html
./CUSTOM/docs/WWW/IOS/IoAdEsodTextSearch.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodTextSearch.html
./CUSTOM/docs/WWW/IOS/IoAdEsodWhatsNew.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodamAdmin.html
./CUSTOM/docs/WWW/IOS/IoAdEsodamAdministration.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodamHome.gif
./CUSTOM/docs/WWW/IOS/IoAdEsodamHome.html
./CUSTOM/docs/WWW/IOS/IoAdEsodamModeration.gif
./CUSTOM/docs/WWW/IOS/IoAdHome.gif
./CUSTOM/docs/WWW/IOS/IoAdKeyword.gif
./CUSTOM/docs/WWW/IOS/IoAdKeywordValids.html
./CUSTOM/docs/WWW/IOS/IoAdNew.gif
./CUSTOM/docs/WWW/IOS/IoAdProgrammers.cnfg
./CUSTOM/docs/WWW/IOS/RedArrow.gif
./CUSTOM/docs/WWW/IOS/Temple.jpg
./CUSTOM/docs/WWW/IOS/adserv_144.gif
./CUSTOM/docs/WWW/IOS/adserv_72.gif
./CUSTOM/docs/WWW/IOS/arrow_down.gif
./CUSTOM/docs/WWW/IOS/attribute.gif
./CUSTOM/docs/WWW/IOS/ecs1.gif
./CUSTOM/docs/WWW/IOS/ecs2.gif
./CUSTOM/docs/WWW/IOS/ecs3.gif
./CUSTOM/docs/WWW/IOS/help.gif
./CUSTOM/docs/WWW/IOS/help_48.gif
./CUSTOM/docs/WWW/IOS/home.gif
./CUSTOM/docs/WWW/IOS/index.gif
./CUSTOM/docs/WWW/IOS/index_a-z.gif
./CUSTOM/docs/WWW/IOS/search.gif
./CUSTOM/docs/WWW/IOS/submit.gif
./CUSTOM/docs/WWW/IOS/systemlogo.gif
./CUSTOM/docs/WWW/IOS/whatis.gif
./CUSTOM/cfg/
./CUSTOM/lib/
./CUSTOM/lib/IOS/
./CUSTOM/lib/IOS/libEcPoSh.so
./CUSTOM/lib/IOS/libIoAdServerSh.so
./CUSTOM/lib/IOS/libIoAdCoreSh.so
./CUSTOM/lib/IOS/libIoAdSubsSh.so
./CUSTOM/lib/IOS/libIoAdSearchSh.so
./CUSTOM/lib/IOS/libEcHtSh.so
./CUSTOM/lib/IOS/libIoAdInstallBaseSh.so

./CUSTOM/lib/IOS/libIoAdHtmlCoreSh.so
./CUSTOM/lib/IOS/libIoAdHtmlSubsSh.so
./CUSTOM/bin/
./CUSTOM/bin/IOS/
./CUSTOM/bin/IOS/RealData
./CUSTOM/bin/IOS/IoAdServer
./CUSTOM/bin/IOS/EcReplace
./CUSTOM/bin/IOS/IoAdInstaller
./CUSTOM/bin/IOS/IoAdDbrun
./CUSTOM/bin/IOS/bcp.copyout
./CUSTOM/bin/IOS/bcp.copyin
./CUSTOM/cgi-bin/
./CUSTOM/cgi-bin/IOS/
./CUSTOM/cgi-bin/IOS/EcCgiWrapper
./CUSTOM/cgi-bin/IOS/IoAdEsodExamples
./CUSTOM/cgi-bin/IOS/IoAdEsodWhatsNew
./CUSTOM/cgi-bin/IOS/IoAdEsodContributions
./CUSTOM/cgi-bin/IOS/IoAdEsodEntryDetail
./CUSTOM/cgi-bin/IOS/IoAdEsodContributionForm
./CUSTOM/cgi-bin/IOS/IoAdEsodTitleIndexForm
./CUSTOM/cgi-bin/IOS/IoAdEsodTitleIndex
./CUSTOM/cgi-bin/IOS/IoAdEsodGroupIndexForm
./CUSTOM/cgi-bin/IOS/IoAdEsodGroupIndex
./CUSTOM/cgi-bin/IOS/IoAdEsodTextSearch
./CUSTOM/cgi-bin/IOS/IoAdEsodScienceSearchForm
./CUSTOM/cgi-bin/IOS/IoAdEsodScienceSearch
./CUSTOM/cgi-bin/IOS/IoAdEsodamGroupSearch
./CUSTOM/cgi-bin/IOS/IoAdEsodGroupDetail
./CUSTOM/cgi-bin/IOS/IoAdEsodamGroups
./CUSTOM/cgi-bin/IOS/IoAdEsodamModerationGroups
./CUSTOM/cgi-bin/IOS/IoAdEsodamModerationQueue
./CUSTOM/cgi-bin/IOS/IoAdEsodamObsoleteReqs
./CUSTOM/cgi-bin/IOS/IoAdEsodamModerationForm
./CUSTOM/cgi-bin/IOS/IoAdEsodamModeration
./CUSTOM/cgi-bin/IOS/IoAdEsodamExpireAdvs
./CUSTOM/cgi-bin/IOS/IoAdInstallForm

./
./CUSTOM/
./CUSTOM/data/
./CUSTOM/data/MSS/
./CUSTOM/data/MSS/EcMsResourceCat.dat
./CUSTOM/data/MSS/country.txt
./CUSTOM/data/MSS/mss_parms
./CUSTOM/data/MSS/state.txt
./CUSTOM/docs/
./CUSTOM/docs/README_MCI_Ac_103196
./CUSTOM/docs/WWW/
./CUSTOM/docs/WWW/MSS/
./CUSTOM/cfg/
./CUSTOM/lib/
./CUSTOM/lib/MSS/
./CUSTOM/lib/MSS/libMsAcSh.so
./CUSTOM/lib/MSS/libClntSh.so

./
./CUSTOM/

./CUSTOM/data/
./CUSTOM/data/DPS/
./CUSTOM/data/DPS/CERES_scf.pcf
./CUSTOM/data/DPS/DAP_email_notify.sample
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records.mak
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records.pro
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records.sh
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records_driver.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records_driver.pro
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records_f.f
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records_f.mak
./CUSTOM/data/DPS/DaacBinDiff_Ex_array_records_f_driver.f
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image.mak
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image.pro
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image.sh
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image_driver.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image_driver.pro
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image_f.f
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image_f.mak
./CUSTOM/data/DPS/DaacBinDiff_Ex_byte_image_f_driver.f
./CUSTOM/data/DPS/DaacBinDiff_Ex_create_array_records.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_create_array_records.f
./CUSTOM/data/DPS/DaacBinDiff_Ex_create_byte_image.c
./CUSTOM/data/DPS/DaacBinDiff_Ex_create_byte_image.f
./CUSTOM/data/DPS/DpAtMgrBinDiff.doc
./CUSTOM/data/DPS/DpAtMgrBinDiffGuiHelp.txt
./CUSTOM/data/DPS/DpAtMgrBinDiffSimpleCmp.c
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplate.c
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplate.f
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplate.mak
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplate.pro
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplate.sh
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplateDriver.c
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplateDriver.f
./CUSTOM/data/DPS/DpAtMgrBinDiffTemplateDriver.pro
./CUSTOM/data/DPS/DpAtMgrCheckHdfFile.defaults
./CUSTOM/data/DPS/DpAtMgrCheckHdfFile.hlp
./CUSTOM/data/DPS/DpAtMgrCheckHdfFile.pro
./CUSTOM/data/DPS/DpAtMgrInternal.pcf.template
./CUSTOM/data/DPS/DpPrEmFailPgeMetFile
./CUSTOM/data/DPS/DpPrEnv.CSH
./CUSTOM/data/DPS/DpPrEnv.csh
./CUSTOM/data/DPS/DpPrEnv.sh
./CUSTOM/data/DPS/ESDT_CER00.odl
./CUSTOM/data/DPS/ESDT_CER16.odl
./CUSTOM/data/DPS/ESDT_SHRTNAME.odl.tpl
./CUSTOM/data/DPS/Emacs
./CUSTOM/data/DPS/PGEMISC.met.tpl
./CUSTOM/data/DPS/PGE_ssit#11.odl
./CUSTOM/data/DPS/PGE_ssit#11.tpl
./CUSTOM/data/DPS/PGE_ssit#12.odl
./CUSTOM/data/DPS/PGE_ssit#13.odl
./CUSTOM/data/DPS/PGS_1010
./CUSTOM/data/DPS/PGS_1014
./CUSTOM/data/DPS/PGS_DPATMGRPRO_1014.h

./CUSTOM/data/DPS/PGS_DPATMGR_1010.h
./CUSTOM/data/DPS/SDS1.hdf
./CUSTOM/data/DPS/SDS2.hdf
./CUSTOM/data/DPS/XBadfunc
./CUSTOM/data/DPS/XDiff
./CUSTOM/data/DPS/XDpAtMgr
./CUSTOM/data/DPS/checklist.sample
./CUSTOM/data/DPS/fckcnf.ecs
./CUSTOM/data/DPS/helpFiles/
./CUSTOM/data/DPS/helpFiles/DpAtOpDbGui.thf
./CUSTOM/data/DPS/helpFiles/EcsHelp.thf
./CUSTOM/data/DPS/helpFiles/DpAtOpDbGui.bfh
./CUSTOM/data/DPS/helpFiles/DpAtOpDbGui.bmh
./CUSTOM/data/DPS/helpFiles/DpPrQaMonitorGUI.bfh
./CUSTOM/data/DPS/helpFiles/DpPrQaMonitorGUI.bmh
./CUSTOM/data/DPS/prohibitedFunctionsAda.txt
./CUSTOM/data/DPS/prohibitedFunctionsC++.txt
./CUSTOM/data/DPS/prohibitedFunctionsC.txt
./CUSTOM/data/DPS/prohibitedFunctionsCsh.txt
./CUSTOM/data/DPS/prohibitedFunctionsF77.txt
./CUSTOM/data/DPS/prohibitedFunctionsF90.txt
./CUSTOM/data/DPS/prohibitedFunctionsKsh.txt
./CUSTOM/data/DPS/prohibitedFunctionsPl.txt
./CUSTOM/data/DPS/prohibitedFunctionsSh.txt
./CUSTOM/data/DPS/ssit_run_menu.txt
./CUSTOM/bin/
./CUSTOM/bin/DPS/
./CUSTOM/bin/DPS/DpPrRM
./CUSTOM/bin/DPS/test_DpPrCotsManager
./CUSTOM/bin/DPS/test_DpPrScheduler
./CUSTOM/bin/DPS/DpPrEM
./CUSTOM/bin/DPS/DpPrGE
./CUSTOM/bin/DPS/DpPrSMFLink.sh
./CUSTOM/bin/DPS/DpPrDM
./CUSTOM/bin/DPS/DpPr_dump_DATA_INFO.sh
./CUSTOM/bin/DPS/DpPrQaMonitorGUI
./CUSTOM/bin/DPS/DpPrQaExecute_IMF.sh
./CUSTOM/bin/DPS/DpPrQaExecute_GSFC.sh
./CUSTOM/bin/DPS/DpPrQaExecute_EDC.sh
./CUSTOM/bin/DPS/DpPrQaExecute_NSIDC.sh
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./CUSTOM/bin/DPS/DpAtMgrLogDump
./CUSTOM/bin/DPS/DpAtINSTALL.sh
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CUSTOM/bin/DpPrDumpEphemeris

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4.2.2 Pre-Release B Testbed Custom Software Copyright Notice

The archive tape delivered with this document contains a tar file and a copyright file. The name of the copyright file is ECS_COPYRIGHT.TXT. The content of the copyright file follows:

Please be advised that this software is still considered developmental and as such has undergone little or no formal testing. HITS Civil Systems in no way warrants this code against possible defects. This software is to be used only for the purpose for which it was released. Any further release or reuse must be authorized by Civil Systems according to the terms and conditions of the NAS5-60000 contract. Certain COTS products and licenses may be required for operation.

5. Non-Conformance Status

5.1 Non-Conformance Status Overview

This section contains the list of problems closed (section 5.2) and known problems (section 5.3). as of 4/17/97 in the product. These problems were found and recorded during development and integration testing and captured in the formal problem tracking system, Distributed Defect Tracking System (DDTS). This list has been reviewed by HITC management and the Pre-Release B Testbed system is considered to be acceptable for delivery at this time. The list includes the NCR ID, Software, Title, Severity, and Problem description. DDTS problem severity definitions, on a 1-5 scale, are defined as follows:

1 Catastrophic bug without workaround that causes total failure or unrecoverable data loss.
Example: system crash or lost user data.

2 Bug which severely impairs functionality. Workaround might exist but is unsatisfactory.
Example: can not use major product function.

3 Bug that causes failure of noncritical system aspects. There is a reasonably satisfactory workaround.
Example: user data must be modified to work.

4 Bug of minor significance. Workaround exists or, if not, the impairment is slight.
Example: error messages are not very clear.

5 Very minor defect. Workaround exists or the problem can be ignored.
Example: bad layout or misuse of grammar in manual.

5.1.1 Installed Changes

This is the first delivery of the software, therefore this section is not applicable.

5.2 Pre-Release B Testbed Non-Conformance Reports (Closed Status)

This is the first delivery of the software, therefore this section is not applicable.

5.3 Pre-Release B Testbed Non-Conformance Reports (Open Status)

NCR ID: **ECSed02411**
Tool: Job Manager
Title: PRONG/PLANG enhanced interface for supporting Replanning function
Severity: 3
Related DR:

Problem: PRONG needs to provide to the Planning Workbench the processing status of all the DPRs and Ground events scheduled by Autosys in order to support the "Replan" activity.

Also, When Planning Workbench sends a CANCEL request to PRONG, the DPR or the Ground event will now be deleted or terminated depending on the processing status.

NCR ID: **ECSed03417**
Tool: DpPrResourceManager
Title: Lock record no being released when condition (No Alarms Found) occurs
Severity: 3
Related DR:
Problem: Resource Lock record is expected to be released (implicitly) when Resource Manager object goes out-of-scope. However, this did not occur when the error that occurred, following successful Resource Manager creation, was due to the absence of any new file alarm records. Normally, there may be file alarm records and such an error condition will not occur. In this case, the normal cleanup procedures occur which explicitly activate the Resource Manager destructor.

NCR ID: **ECSed03555**
Software: Execution Management
Title: The Production History format and content needs to be finalized
Severity: 3
Related DR:
Problem: Some components of the Production History file are missing. Also, some reformatting needs to occur.

NCR ID: **ECSed03573**
Tool: QA Monitor
Title: Production History file currently not retrieved with granule(s)
Severity: 3
Related DR:
Problem: It is unclear at this time if the Production History file can be retrieved along with the product granule. The worst case is that the user will have to make a separate query for the Production History data type in the required temporal window. Need to assess what the capabilities are in light of the latest Data Server delivery and take an action to provide for concurrent Production History retrieval if this becomes feasible in the near term.

NCR ID: **ECSed03624**
Software: Resource Management
Title: DB Transactions required to handle faults
Severity: 3
Related DR:
Problem: Transaction based processing (i.e. begin/rollback/commit) needs to be retrofitted to ensure that faults are handled properly.

NCR ID: **ECSed03632**
Software: Data Management
Title: DB Transactions required to handle faults
Severity: 3
Related DR:
Problem: Transaction based processing (i.e. begin/rollback/commit) needs to be retrofitted to ensure that faults are handled properly.

NCR ID: **ECSed03658**
Tool: SQR Report Scripts
Title: PDPS Reports need to match advertised reports
Severity: 3

Related DR:
Problem: PDPS reports need to conform to the description of reports put out earlier via the Ops Telecons for DAAC review and comment. This description is documented in informal working papers that reflect meetings held earlier in the Rel A development cycle.

NCR ID: **ECSed03659**
Tool: SQR Report Scripts
Title: Automatic Initiation of PDPS Reports
Severity: 3
Related DR:
Problem: Certain PDPS reports need to be initiated in an automatic fashion as well as via operator selection on a GUI as now implemented. These reports are: Production Plan, Processing Status Report, Processing Errors Report, Processing Errors Summary Report, and Processing Resource Usage Report.

NCR ID: **ECSed03750**
Tool: Resource Planning
Title: Change use of critical error for HUserOut
Severity: 3
Related DR:
Problem: Using the critical option for HUserOut automatically displays an error window to the user. This requires that the Message Handler window be open (not iconified), otherwise, the error window is not seen. The reservation editor (SI) needs its own error message box.

NCR ID: **ECSed03874**
Tool: PlPREditor
Title: PGE Name field is incorrect.
Severity: 3
Related DR:
Problem: When creating a production request (PR) and selecting a PGE for that PR, the PGE selection GUI incorrectly fills the PGE id field with a PGE name that has nothing to do with the PR being generated.

The field should be displayed with no contents until the PR is saved.

NCR ID: **ECSed03875**
Tool: Database Schema
Title: Fields missing and remove additional constraint on database schema
Severity: 3
Related DR:
Problem: 1. Require additional field to generate PDPS report
Add PRODUCTION_REQUEST_STATE field into to PRODUCTION_REQUEST table
Values: Complete, Failed, In Progress and Inactive
2. Remove the primary key for completion date on the DPR_COMPLETION table.
3. Remove the insert and update "NULL" constraint for DPR_ELAPSED_TIME on the DPR_COMPLETION table.

NCR ID: **ECSed03876**
Tool: PlPREditor
Title: PR is saved without DPR creation.
Severity: 3
Related DR:
Problem: Currently the software allows for the creation of a production request (PR) without creating any data processing requests (DPRs) for it. This should not be allowed within the design of the Planning subsystem.

Analysis: The problem arises because no error is returned from PlGenerateDprs in CoreLib/PlTimeScheduled.cxx when 0 DPRs are generated. The generation algorithm is not necessarily wrong, it is just that the input lead to the fact that no DPRs are produced and this should be logged as a warning at the least.

NCR ID: **ECSed04193**
Software: Plang
Title: PLANG GUIs displayed PGEs marked as "deleted"
Severity: 3
Related DR:
Problem: In SSI&T, the DAAC user has the capability of marking PGEs in the SSIT PDPS database as "deleted".

This information is later propagated to the Production PDPS database. However, the PGE entries marked deleted are never physically removed from the database. According to Jolyon, Planning GUIs display lists of ALL PGEs, regardless of whether they are marked deleted.

Planning GUI code needs to change, such that PGEs marked deleted (i.e., the DELETE_FLAG parameter in table PGE_DETAIL_RESREQS is set to 1) are not displayed on the GUI.

NCR ID: **ECSed04382**
Tool: Execution Management
Title: Resources are not freed when allocation fails
Severity: 3
Related DR:
Problem: Allocated resources (CPU and RAM) are not freed when resource allocation fails.

NCR ID: **ECSed04384**
Tool: Execution Management
Title: Resource Manager object is not destroyed properly
Severity: 3
Related DR:
Problem: When a request for resources are rejected, the software does not properly destroy the DpPrResourceManager object. This leaves a lock record in the RESOURCE_LOCK table such that further requests made to the Resource Manager are blocked indefinitely.

NCR ID: **ECSed04396**
Tool: Execution Management
Title: Software does not re-attempt to allocate resources
Severity: 3
Related DR:
Problem: The software does not re-attempt to allocate resources when Resource Manager returns an error due to resource unavailability.

NCR ID: **ECSed04490**
Tool: Resource Planning
Title: Need check for invalid time
Severity: 3
Related DR:
Problem: Before converting from RWDateTime to HDateTime, need to make sure the date/time is invalid (Jan 1, 1990 00:00:00) will cause an assertion. (Resource Planning GUI)

NCR ID: **ECSed04520**
Tool: Report Scripts
Title: Processing Error Summary Report per PGE

Severity: 3
Related DR:
Problem: The Processing Error Summary Report currently include the completion status of the job. The report should present the exit code status which is unique to the PGE. The report should, therefore, also include the PGE ID of the PGE reporting the exit code.

NCR ID: **ECSed04715**
Tool: PDPS Database
Title: RESOURCE_NAME field should have unique values.
Severity: 3
Related DR:
Problem: The RSC_COMPUTER table allows the RESOURCE_NAME field to have non-unique values. The primary key field for that table is RESOURCE_ID. If a duplicate resource name is entered into the table, the Planning Workbench application cannot determine upon which resource to schedule a plan. The Resource Planning application checks for duplicate RESOURCE_NAME values when creating resources but if resources are created by bulk copy or by hand, the table can cause errors with the software.

NCR ID: **ECSed05265**
Tool: Execution Management
Title: Multiple Source MCFs Required for Each PGE
Severity: 3
Related DR:
Problem: Going back to Toolkit 5.1 (May 1996), there was only one MCF originally. This Toolkit input file was accommodated by the PDPS through the introduction of LID 10250. Also, the SCF provide MCF was to be incorporated into the EXE TAR file that gets assembled at the time of SSI&T. But, with the introduction of Toolkit 5.2 (Nov. 1996), there no appears to be support for many MCFs. The problem is that the SCF (IT developers) determine the LID for these MCFs and there is no ideal mechanism within PDPS to maintain this information.

The Toolkit design change was apparently the result of some desire to keep a one-to-one relationship between the MCF and the Data Server descriptor files which maintain metadata attribute information on an ESDT (aka datatype) basis; Though it is not clear that such a relationship needs to exist. My understanding, though it may be dated, was that the MCF served as an attribute-defining template for one or MORE datatypes, though achieving this in practice may cause some hardships on the IT developers.

NCR ID: **ECSed05267**
Tool: Data Management
Title: Metadata ASCII files are Not Sticky
Severity: 3
Related DR:
Problem: As a side-effect, core metadata ASCII files are deposited in the DPR runtime directory (a.k.a. the working directory) by the Toolkit MET tools. This arrangement works fine for DM Inserts, but will not suffice for downstream PGEs which require the ASCII file as an associated input file. The reason, is due to the fact that the DPR runtime directory gets removed following the successful run of the DPR. Other mechanisms prevent the re-acquisition of the Product file for subsequent PGEs.

So, how do we maintain the ASCII files beyond the life of the PGE which generated them?

NCR ID: **ECSed05271**
Tool: Data Management
Title: Separate Staging Directories Needed for Acquires
Severity: 3

Related DR:
Problem: Acquire requests being met by DDIST can only guarantee that filenames are unique WITHIN a single ESDT granule. This sets up the problem whereby multiple acquire() calls could result in the overwriting of a data file that was previously staged to the local disk.

NCR ID: **ECSed05272**
Tool: Data Management
Title: Need to Adjust Allocations Following Acquires
Severity: 3
Related DR:
Problem: Acquired granules may have different sizes than the projected size defined in the DATA_TYPE_GRANULE table. If the size is appreciably greater than the original size allocated through Resource Manager, this could lead to difficulty in running some jobs.

NCR ID: **ECSed05274**
Tool: Execution Management
Title: Need to Create Runtime Directory Under PGE Directory
Severity: 3
Related DR:
Problem: Data Manager needs to generate directories to handle the acquisition and creation of files for each DPR. However, Execution Manager also creates DPR directories to handle all of the runtime files required by the PGE. Unfortunately, the 2 CSCs cannot share the same DPR directory since EM destroys the directory following the completion of the PGE.

NCR ID: **ECSed05275**
Tool: Execution Management
Title: Metadata ASCII Files Need to be Linked in the PCF
Severity: 3
Related DR:
Problem: The result of a product Acquire can be one, or more files. Each product file receives an entry in the PCF. However, if one of the files is a metadata file, then this needs to be associated with the appropriate product in entry in the PCF.

NCR ID: **ECSed05276**
Tool: Execution Management
Title: Several PCF Entries Required to Satisfy PGE Execution
Severity: 3
Related DR:
Problem: The following entries were recently added to the Toolkit PCF template and are not currently recognized by DPS:

10254 "Metadata Write Buffer"
10252 "Metadata Get Buffer"

These entries will NOT be used:

10250 "Template MCF"
10255 "Default ASCII Dump Location"

The following entry defines the local science processing host and must be updated for each PCF:

10099 "Local IP Address"

Additionally, the ECS needs to provide the data collection start and stop times. We agreed to provide these 2 items as runtime parameters in the PCF:

10258 "Collection Start Time (UTC)"
10259 "Collection Stop Time (UTC)"

Also, entry 10099 "Producer IP Address" needs to be updated with the full IP address of the science processing platform (this gets used by the Toolkit to generate unique temporary file names).

Plus, entries to support DPREP customizations as follows:

Define a configuration parameter DpPrEM_DPREP_ID to identify the Science software id (SSWID) for DPREP. Always test for this application before generating the PCF. If SSWID == DPREP (or whatever the actual id is), insert the filename/path combination at both locations 1100 AND 10501 in the PCF.

N.B. M & O ... whenever DPREPR code changes, the above config. parameter will require updating.

Default directory locations in the PCF:

PRODUCT INPUT	Toolkit runtime (aka ~/runtime) (defined by $PGSHOME)
PRODUCT OUTPUT	Toolkit runtime (aka ~/runtime) (defined by $PGSHOME)
SUPPORT INPUT	Toolkit runtime (aka ~/runtime) (defined by $PGSHOME)
SUPPORT OUTPUT	DPR runtime directory (EM defines)
INTERMEDIATE INPUT	DPR runtime directory (EM defines)
INTERMEDIATE OUTPUT	DPR runtime directory (EM defines)
TEMPORARY	DPR runtime directory (EM defines)

NCR ID: **ECSed05277**
Software: Data Management (Destage phase)
Title: Modify Product Permissions upon Staging & Destaging
Severity: 3
Related DR:
Problem: To maintain the integrity of data products that reside locally on the science platforms, all files which are used as input must be READ only. Unfortunately, the same files need to be writeable if they are to be generated in the first place.

NCR ID: **ECSed05768**
Tool: SSIT
Title: PRONG requires output file SCIENCE_GROUP to be unique
Severity: 3
Related DR:
Problem: PRONG software requires PDPS database column SCIENCE_GROUP in table OUTPUT_DATA_YIELD to be unique for a given PGE.

In addition, all values in the table must have a value for SCIENCE_GROUP. Null values are not allowed.

NCR ID: **ECSed05885**
Tool: DpAtOpDbGui
Title: Delete key disappears and Font size settings affect GUI display
Severity: 3

Related DR:
Problem: While running the DpAtOpDbGui on plng2sun, the DELETE key on the profile tabstack window will disappear as the window is resized. When the window is increased to full size, the Delete key disappears. As the window is decreased the Delete key reappears in varying proportions and is relative to the percentage that the window is increased/decreased.

In addition, the titles (NEW PGE, Existing PGE, and Science Metadata) on the Select Tabstack window are drastically affected by the size of the font selected through the SUN style manager. As the font is increased these titles are truncated. They can be resumed if the window is increased to full screen, however then the DELETE key disappears. By playing around with font settings: It appears that the optimum setting is font style size 2. But even at that, the DELETE key will still become nonexistent when the window is increased to full size.

Another problem on this GUI: the Top level Shell filename is requested here -- but it is also requested as input to the InsertExeTarFile program.

NCR ID: **ECSed05969**
Tool: SSIT/DpPrExecMgr
Title: Re-registration of PGE needed if initially incorrect.
Severity: 3
Related DR:
Problem : If the top level shell script name for a PGE is entered incorrectly during registration, you must re-register the PGE to change the name otherwise the PGE won't run in AutoSys. The name can be changed dynamically from the SSI&T Manager GUI but the change doesn't get propagated to the EXECUTABLE table where the Execution Manager uses it during processing. It should be noted that the SSIT Manager GUI's role is NOT to update the EXECUTABLE table therefore changes made to that effect would be considered wrong.

Analysis: PDPS Testbed was designed so that if a PGE failed during Processing, it means that a fix is required to the PGE, which by definition becomes a new PGE version.

Therefore a single PGE version cannot be registered twice, once it has been run in Processing. Suggest this NCR be moved to Release B as a design change.

NCR ID: **ECSed05972**
Software: PDPS
Title: GUIs need to be dynamically updated.
Severity: 3
Related DR:
Problem: The GUIs for Production Request Editor and Planning Workbench don't have a refresh button to get the latest updates from the database. This can cause problems if updates are made, for instance, to a table that either GUI uses when the GUI is up. Those updates will not be seen by the GUI unless its application is shut down and brought back up.

NCR ID: **ECSed05976**
Tool: PlSubsReaper/SSIT
Title: File inserts not affecting AVAILABILITY flag.
Severity: 3
Related DR:
Problem: It seems that the Subscription Reaper and the Insert Dynamic application in SSI&T Manager GUI do not set that AVAILABILITY flag of the data granule to "Y" when the granule is inserted. This phenomena has occurred for static files only.

NCR ID: **ECSed05981**
Tool: SSIT
Title: SSIT must support SCIENCE_GROUP etc in all PCF sections
Severity: 3
Related DR:
Problem: ASTER code will not work in the PDPS system unless the SUPPORT INPUT section of the PCF is treated the same way as the PRODUCT INPUT section.

This results because ASTER was given a waiver by NASA/ESDIS to use low-level unpublished Toolkit interfaces, which ASTER used to access the runtime PCF in unorthodox ways.

NCR ID: **ECSed06012**
Tool: SSIT
Title: Minor changes needed in SSIT files
Severity: 3
Related DR:
Problem: 1) HDF File Comparison GUI will not run when invoked from SSIT Manager.
2) SSIT README file has some typos:
-- FORCHECK bin path should be /usr/ecs/Rel_A/COTS/forchk/
-- PCF env var is PGS_PC_INFO_FILE
3) SSIT Manager tries to invoke "INSERT SSAP" software when selected; this software is not part of the Testbed. Applies to ACQUIRE DAP also)
4) SSIT Install script references directory data/COMMON/app-defaults. Instead this should be data/COM/app-defaults.

NCR ID: **ECSed06142**
Software: Sybase
Title: Catastrophic failure of the PDPS database.
Severity: 3
Related DR:
Problem: After the database was 'wiped clean' prior to the installation of April 14, the system was brought up. The phenomena experienced was localized to the PDPS database. The description follows:

The DAAC resources were inserted into tables within the database. The insertion failed. A subsequent re-attempt was successful. I performed a query of the database via isql which resulted in finding the data items. When the browser was brought up to query the database, different values were found on the same query criteria.

The Sys Admn was brought in along with the development team and the DBA. It wasn't apparent what was the cause of the problem. The decision was made to reboot the machine and re-create the database. This was done successfully. Subsequent runs were fine.

The reason for this NCR is to document and elevate this problem, possibly for Sybase to analyze the situation. If this is encountered during the operational phase, the results could be catastrophic if the DAACs don't do daily backups.

NCR ID: **ECSed06165**
Software: Data Manager
Title: Management of Cache causes DB conflict
Severity: 3
Related DR:
Problem: When multiple, identical PGEs access the same granule at the same time Data Manager's cache management causes a database conflict.

This error was found while processing 2 copies of the CERES10aT synthetic PGE during the GSFC sell-off demo.

If the top level shell script name for a PGE is entered incorrectly during registration, you must re-register the PGE to change the name otherwise the PGE won't run in AutoSys. The name can be changed dynamically from the SSI&T Manager GUI but the change doesn't get propagated to the EXECUTABLE table where the Execution Manager uses it during processing. It should be noted that the SSIT Manager GUI's role is NOT to update the EXECUTABLE table therefore changes made to that effect would be considered wrong.

Analysis : PDPS Testbed was designed so that if a PGE failed during Processing, it means that a fix is required to the PGE, which by definition becomes a new PGE version. Therefore a single PGE version cannot be registered twice, once it has been run in Processing.

Suggest this NCR be moved to Release B as a design change.

NCR ID: **ECSed02152**
Tool: Prod. Req. Editor
Title: No status issued from the FIND button.
Severity: 4
Related DR:
Problem: The FIND button in the PR Review and DPR Review screens is used to find a character string in the window. If however the string is not found, nothing happens. There is no status pop-up window issued that tells the user that the character string was not found.

NCR ID: **ECSed03699**
Tool: Resource Planning
Title: Poor comments in shared headers
Severity: 4
Related DR:
Problem: Header comments in shared classes are poor, and do not give a good documentation when reverse engineered by ROSE.

NCR ID: **ECSed03709**
Tool: Production Timeline
Title: Display of Data Arrival Events
Severity: 4
Related DR:
Problem: Production Planning Timeline should display data arrival events in order to give a justification for the allocation of DPRs within a plan

NCR ID: **ECSed04347**
Tool: PDPS/SSIT Database
Title: Readme Missing for PDPS_SQL_10_24.tar delivery
Severity: 4
Related DR:
Problem: The readme for PDPS_SQL_10_24 (delivery for schema update to the PDPS/SSIT database is filesize 0

NCR ID: **ECSed04462**
Tool: Planning Workbench
Title: GUI enhancements are needed.
Severity: 4
Related DR:

Problem: The Planning Workbench Timeline GUI works well and displays information effectively. However, it should have the following items added to it for convenience:

1) an EXIT button to exit gracefully from the GUI. Currently the user can exit by pulling down the XWindow bar on the upper left of the GUI and selecting Close.
2) a FIND button to quickly locate a candidate/active plan. Currently the user must manually search through the timeline; this can be cumbersome if the GUI spans many days or weeks.

NCR ID: **ECSed04489**
Tool: Resource Planning
Title: Block size field length too small
Severity: 4
Related DR:
Problem: The field length for Block Size on the Disk Partition GUI is 4. This should be increased to 6.

NCR ID: **ECSed04639**
Tool: Resource Planning
Title: Inconsistency in GUI button meaning and action.
Severity: 4
Related DR:
Problem: In the Resource Selection screen there are two buttons at the bottom, Ok and Cancel. When a resource is selected and the Ok button is pressed, the resource moves from the Available screen to the Selected screen.

If the selected resource is highlighted to be moved and the Cancel button is pressed, the resource will be unselected.

This scenario means that the Cancel button does not cancel the action that was performed rather it cancels whatever action is currently highlighted. A demo can be performed if it is not clear what the user is trying to describe.

NCR ID: **ECSed04690**
Software: HPOV
Title: HP OV Warning Upon Initialization
Severity: 4
Related DR:
Problem: When HP OV is initialized, a Warning pop-up window appears. The warning includes the following information:

> Missing XNmevents resource file version.
> Continuing anyway, but inconsistent geometry and other X-related
> irregularities may occur.

Analysis: Use of private version of PlMEssageDialog class within Production Request Editor leads to maintenance problems when errors are found in this class (which is also used by other PDPS GUIs).

NCR ID: **ECSed04892**
Tool: Production Request Editor
Title: Priority value unlimited
Severity: 4
Related DR:
Problem: The value of Priority should be from 1 to 99, as described in 609. However the operator may enter numbers greater than 99. No error messages are presented when the PR is saved and the PR List will show PR's with entered priority. (I have entered 1111110 as a

priority with no problems.) Operator should be only allowed to enter two characters or receive an error on PR save.

NCR ID: **ECSed04893**
Tool: Production Request Editor
Title: PR Comment Text area
Severity: 4
Related DR:
Problem: The PR Comment field is unlimited for entry of text. However, if you enter a large amount of text (~250+), you will be unable to save the PR. No error message as to why is presented.

Recommend limiting the Comment Text to a defined limit and adding scroll bars (horiz. & vert.) to the Comment field to display the text.

NCR ID: **ECSed05968**
Software: DpPRQaMonitor
Title: Monitor GUI Status window does nothing.
Severity: 4
Related DR:
Problem: When the QA Monitor GUI is brought up there is a Status window at the bottom of the GUI. This window's role is to provide status information on any of the actions performed on the GUI. Currently the window does nothing. It does not update for any actions performed within the GUI.

To resolve this the developer should either correct code to activate the window or remove it altogether.

Analysis : The status window at the bottom of the GUI provides the status information on any action performed on the GUI. It displays the status information because the status window is small. It requires to use mouse to move arrow on the right hand side of window to browse the status information.

NCR ID: **ECSed03838**
Tool: EOSView-CLS
Title: EOSView Bug Fixes
Severity: 5
Related DR:
Problem: These are minor bug fixes for EOSview. They will be fixed with the next EOSView - CLS build:

Updates to EOSView
- Modified to use HDF Version 4.0 Release 2
- Now linking to latest HDF-EOS library
- Fixed 1D SDS bug
- Fixed table index bug
- Fixed and updated attribute functionality
- Added ability of file eosview.dat to use environment variable EOSVIEWHELPDIR
- Fixed Int8 bug
- Updated dimensions table to read UNLIMITD instead of 0
- Updated Start/Stride/Edge window with error checking routines
- Fixed file description bug
- Fixed table scroll bug

NCR ID: **ECSed04066**
Tool: PlPREditor
Title: Ambiguity when entering / displaying times

Severity: 5
Related DR:
Problem: It can be difficult to determine what time frame PRs and DPRs are using when entering / displaying time.

The Data Times are UTC Schedule times. Edit times are local time.

It is suggested that where a UTC time is entered or displayed a label or clarification is added to the GUI to show that the time is UTC.

NCR ID: **ECSed04230**
Software: Production Request E
Title: Use of private version of PlMessageDialog class
Severity: 5
Related DR:
Problem: Use of private version of PlMEssageDialog class within Production Request Editor leads to maintenance problems when errors are found in this class (which is also used by other PDPS GUIs).

Production Request Editor Imakefile should be modified so that PRE just uses common GuiError library, PlMessageDialog.cxx, .h should be removed from the Production Request Editor GUI directory to prevent further problems

NCR ID: **ECSed04569**
Software: ProductionRequestEditor
Title: Link Info between GUI pages
Severity: 5
Related DR:
Problem: The Operator should be able to select a Production Request from the PR List and then select PR Edit and see that PR displayed and/or then go to DPR List and see that PR as the default, select filter and then select a DPR, go to DPR Edit and see that selected DPR. Currently each Tab Stack is independent of the other Tab Stacks. The operator must repeat File - Open selections.

NCR ID: **ECSed04570**
Software: ProductionRequestEditor
Title: Sorting/Filtering of Lists
Severity: 5
Related DR:
Problem: Production Request Editor GUI should be able to sort the Production Request List, DPR List.... PGEs, PR, DPR..... Currently you can select a parameter title for some of the lists but can not sort the list.

No filtering on PGE selection. Why not enter Satellite, Instrument then select PGE and get a filtered list. Or add the filtering to PGE page. I believe that the list will become very large and need filtering.

NCR ID: **ECSed04571**
Tool: ProductionRequestEditor
Title: TAB&Select uneditable fields
Severity: 5
Related DR:
Problem: You can TAB/Select fields that you can not change in the PR Edit Tab Stack. If the Operator is not allowed to change the information in a field, do not allow the operator access to that field. Make the fields look different if there is not operator access. This also is true with the DPR Edit Tab Stack.

NCR ID: **ECSed04888**
Tool: Production Request Editor
Title: PGE Function to PGE Selection List
Severity: 5
Related DR:
Problem: A description field is needed to identify PGEs in the PGE Selection List in the Production Request Editor GUI. Suggest using the PGE Function attribute (string 80 characters) of PGE Description class and adding it to the table. Operators then could determine differences/functions between PGE's of like names or different versions.

NCR ID: **ECSed04890**
Tool: Production Request Editor
Title: Find Function
Severity: 5
Related DR:
Problem: When the Find Button is used in any of the GUI pages, the line on which the string is found is highlighted. If the string is located several times on one line, then the find button will need pressed several times to move to the next line. This is very cumbersome and provides no feedback to the operator that the text has been found again on the same line.

The Find should function as described in 609. As described in 609, for the example of finding a particular PR, when Find is used, the resulting list will only include PRs where the contents of one of the display fields match the search string. Also, should there be a Find All button to redisplay the entire list after a Find.

NCR ID: **ECSed04896**
Tool: Resource Planning
Title: Do not display disk resources in Resource Planning GUI
Severity: 5
Related DR:
Problem: The list of resources currently will display disk resources (if a computer or string is picked that has a disk associated with it). Do not display disk resources in this list.

Appendix A. Build Instructions

This appendix describes the necessary build procedures for Pre-Release B Testbed custom software released by the Configuration Management Organization (CMO) at the EOC. The system build takes place at the Landover facility utilizing the ClearCase CM tool. Configuration management of the source files used to build executables is maintained at the Landover facility. Executables produced as a result of the build process are delivered to the EOC. Installation of the executables and supporting data/configuration files are discussed in Appendix B.

A.1 Build Process

1. Create new view

```
cleartool mkview -tag {…} -ln
```

/net/melton/home/viewpools/cm/…../net/krypton/data14/views/……

2. Login to your view

Follow these three steps:

```
cleartool setview  {view name}
setenv TRR_YES YES
source /ecs/formal/COMMON/.buildrc
set filec
```

3. Promote the files

Note: Developers do this ./directory should be the one above

```
promote -n -r -f   PRE -t  INT ./(directory)
```

This will show what is to be promoted

```
promote -r -t INT ./(directory)
```

This will promote from PRE to INT.

4. Merge the files (REL_A)

```
cleartool findmerge . -fve …/rel_a_(directory)/INT  -merge
```

In the comments field place STF# (number assigned), then place a period on a separate line by itself.

Note: The directory needed above and below is listed on the STTS forms

Sometimes the merge branch can be …/rel_a_(directory)/INT. This happens when developers have used the old rel_a_dev branch, DSS does this! If things don't merge right, check this first!)

5. **Build the system**

   `clearmake -C gnu -f System.make > & output file name &` (or)

   `clearmake -C gnu -f System.make > & tee output file name &`

   This can also be clearmake -C gnu >& output file name & (This is used to build individual subsystems that already have a makefile in the src directory*}*

   Note: On HP Builds the imake must be built on a sun platform.

   `clearmake -C gnu -f System.make BuildImake>&filename.out&`

   The -f system.make is for full system builds only, otherwise it is omitted.

6. **Clear install directories**

   `source CleanInstall from the /ecs/formal/COMMON/`

   Note: Do not perform this command if more than one build has been done in same view.

7. **To deliver**

   `clearmake -C gnu Deliver` (Must be done from directory with a makefile in it.)

   Note: For system builds the command is "clearmake -C gnu -f System.make Deliver"

8. **To tar the files**

   cd to subsystem directory, then to /install

   `tar cvf /home/rgorsky/tarFiles/filename.tar .`

   Note: Perform the tar command on a sun machine.

9. **To read tar files**

   `tar tvf` /home/rgorsky/tarFiles/filename.tar

10. **To deliver tar files**

    Login into ren.gsfc.nasa.gov (This system is dual ported to here and Goddard)

    Copy tarfiles from home directory /home/rgorsky/tarFiles/filename.tar to /net/mssg1sun/vol0/tarfiles

11. **Manual Label**

    cd /ecs/formal/COMMON/SysBuild

    `setenv ECCMLABELALLFILES <labelname>`

Note: labelname = Subsystem_Architecture_Date or System_Subsystem_Architecture_Date (e.g., PDPS_Sun5_11_21 or System_CLS_Hp_11_21)

Manual_Label ./System.make >& filename.out & (Do this even if not a system build)

Note: The script will label all files throughout all vobs an directories.

```
Cleartool lsco -avo -cvi -short>(filename)
```

```
vi (filename)
```

```
:g/^/s//cleartool ci -nc /g
```

This will set the file up to checkin all files:

`chmod +x (filename)` This makes the file executable.

Type the filename (This will execute the file)

```
cleartool lsco -avo -cvi -short>(newfilename)
```

Note: This is to ensure all files were checked in.

If you still have output for filenames then run the command:

```
cleartool unco -rm </path/filename>
```

Then, run the command:

`cleartool lsco -cvi -short` (to ensure no output)

A.2 Distributed Builds

```
clearmake -J 3 -C gnu -f System.make BuildAll >& filename.out &
```

-J options says to do distributed build

2 says to use 2 hosts from the .bldhost file indicated)

Note: The user must have the following files built in their individual home directory .bldhost.sun5, .bldhost.hp, .bldhost.sgi. The file format must be as follows:

line 1 "-idle 20"

line 2 "hostname"

line 3 "hostname" the file may contain up to 5 hosts.

A.3 Additional Notes and Commands

Some additional parameters to the clearmake -C gnu command may be as follows:

- BuildAll - which cause all files to be built
- BuildImake - which creates the Imake files only (perform on a sun for hp blds)

- ProductHs - which is used to build only Header files
- ProductLibs - which is used to build only Libraries
- LastPass - which will only build the lastpass of the code

To clean up a view which will remove view private files and other you can use:

The command “clearmake -C gnu -f System.make CleanView” without the quotes and this should be done from the /ecs/formal/COMMON/SysBuild directory

Appendix B. Pre-Release B Testbed Installation Procedures

The Pre-Release B Testbed system will be used to perform SSI&T and Planning and Data Processing activities at each of the four DAAC sites: Goddard Space Flight Center (GSFC), Langley Research Center (LaRC), Eros Data Center (EDC), and National Snow and Ice Center (NSIDC). In order to install and verify the functionality of the system, the software must be transferred from the ECS staging area to each site's central installation area. These procedures describe the steps that must be performed in order to accomplish the installation process. In addition to installing the software, a high level checkout of the software will also be performed within these procedures in order to ensure the stability of the system prior to regression level testing at each site.

B.1 Delivery of Tar Files from ECS Pickup Site

This section covers the procedures required to pickup the Pre-Release B Testbed installation tar file(s) from the ECS remote ftp site. In order to install the Testbed the software tar file(s) must be retrieved from the staging device. Prior to retrieval, this device will receive the Pre-Release B Testbed tar file(s) from the ECS CM group.

1. Log into any DAAC site System Administration machine.
2. Connect to the ECS machine via remote ftp:

   ```
   % ftp <ECS machine ftp address>
   ```
3. Set directory to the ECS machine's staging area:

   ```
   ftp> cd <staging area directory>
   ```
4. Set the ftp transfer mode to binary:

   ```
   ftp> bin
   ```
5. Get the tar file(s) from the staging area:

   ```
   ftp> get <installation tar filename1>
   ftp> get <installation tar filename2>
   ftp> get <installation tar filename_n>
   ```
6. Exit from the ftp utility:

   ```
   ftp> bye
   ```
7. Obtain a listing of the tar file(s):

   ```
   % tar -tvhf <tar filename 1> > <listing filename 1>
   % tar -tvhf <tar filename 2> > <listing filename 2>
   % tar -tvhf <tar filename n> > <listing filename n>
   ```

8. The listing(s) is used as a reference when untarring the files onto the DAAC hardware platforms. The listing(s) can also be referred to in case of errors.
9. Untar the file(s) into the DAAC directory structure:

```
% tar -xvf <tar filename 1>
% tar -xvf <tar filename 2>
% tar -xvf <tar filename n>
```

B.2 Verify COTS and Custom Software Installation

This section provides instructions for verifying that each of the COTS software packages and every piece of custom code were installed onto each hardware machine. The script that performs the audit will be delivered within the delivery tar file and untarred onto a site machine. The machine on which the audit is to take place must have the audit script installed locally. After verification, the audit script will be deleted. The following steps must be performed on each machine in order to audit that machine's software installation.

B.2.1. Verify Software Configuration

1. Login to the desired machine.
2. Set directory to where the installation checkout script was untarred:

```
% cd <directory name>
```

3. Run the script to verify installation:

```
% swaud
```

4. This script creates two files: one file, <*machine name*.out>, that lists the status of all software found on the machine and one file, <*machine name*.err>, that lists the software not found on the machine. It takes input from a datafile that is machine specific which is provided in the delivery. The two output files should be reviewed for content against the baseline charts.

B.3 Perform AutoSys Configuration

AutoSys is the PDPS processing tool charged with handling the execution of the PGE. In order to configure and verify AutoSys properly, the following steps must be performed.

B.3.1 Configure machines in AutoSys:

1. Login to the AutoSys Server machine
2. Source the AutoSys setup script:

```
% source /usr/ecs/Rel_A/COTS/autotree2/autosys.csh.'hostname'
```

3. Type in AutoSys specific JIL commands:

```
% jil
```

```
> insert_machine: <queueing machine name>
> type: r
> max_load: 1000
> factor: 1.0
> insert_machine: <science processing machine name>
> type: r
> max_load: 1000
> factor: 1.0
> exit
```

B.3.2 Modify default Bourne shell profile:

1. `% xedit /etc/auto.profile`
2. Add the following text to the end of the file on the queueing machine:

   #
   # ECS PDPS Setup (<*queueing machine name*>)
   #
   umask 2
   ECS_HOME=/usr/ecs/Rel_A ; export ECS_HOME
   SYBASE=/usr/ecs/Rel_A/COTS/sybase ; export SYBASE
   PATH=/usr/ecs/Rel_A/CUSTOM/bin/DPS:$PATH ; export PATH
   LD_LIBRARY_PATH=/opt/SUNWspro/SC3.0.1/lib:/usr/uclib:/tools/rogue61/lib:$SYB
   ASE/lib ; export LD_LIBRARY_PATH
   and
   #
   # ECS PDPS Setup (<*science processing machine*>)
   #
   umask 2
   PATH=/usr/ecs/Rel_A/CUSTOM/bin/DPS:$PATH ; export PATH

B.3.3 Add AutoSys Event Processor startup procedure into queueing machine's boot procedure:

1. Add the following lines into the boot procedures (need root permission for this therefore a Sys Admin person must do this):

   ```
   % source /usr/ecs/Rel_A/COTS/autotree2/autosys.csh.'hostname'
   ```

   ```
   % eventor -q
   ```
   and

   ```
   % . /usr/ecs/Rel_A/COTS/autotree2/autosys.csh.'hostname'
   ```

```
% eventor -q
```

B.3.4 Check installation of AutoSys:

1. Verify Event Server database and Event Processor health:
   ```
   % chk_auto_up
   ```
2. Monitor Event Processor activity:
   ```
   % autolog -e
   ```
3. Monitor Job activity:
   ```
   % autorep -J ALL
   ```
4. Monitor machines:
   ```
   % autorep -M ALL
   ```
5. Verify client configuration:
   ```
   % autoping "machine"
   ```
6. Check licenses for s (server), c (client), t (time), X (Xpert):
   ```
   % gatekeeper
   > P
   ```
7. Launch AutoSys GUIs:
   ```
   % autosc &
   ```
8. Check the Job Definition GUI to run a simple job both on the client and server machines.

B.3.5 Add AutoSys User Login to the PDPS Database:

Instruct the DBA to add the AutoSys login name to the PDPS database so that AutoSys can access the database via the processing routine calls.

B.4 Install and Configure Toolkit Software

The DAAC Toolkit is used by the PGE during runtime. It is custom software that is delivered and built on the four Sun machines (AIT1, AIT2, PLN1, and PLN2). The following procedures must be performed to install Toolkit onto the appropriate site machines.

B.4.1 Installation instructions for the DAAC Toolkit (SGI):

1. Remotely login to the DAAC target machine by typing the following:
   ```
   % rlogin <full machine name and domain or IP address> -l <username>
   ```
2. Change directory to the target directory and verify that the directory/partition has at least 500Mb of free space by typing the following:
   ```
   % cd /usr/ecs/Rel_A/CUSTOM/bin
   % df -k .
   ```

3. Make the toolkit directories and 'untar' the toolkit by typing the following:

```
% foreach dir (daac_toolkit_f77 daac_toolkit_f90 scf_toolkit_f77
   scf_toolkit_f90)
? mkdir $dir
? cd $dir
? zcat <directory path>/RELA_TOOLKIT_031997.tar.Z | tar xvf -
? cd ..
? end
```

Note: The question mark above ("?") is a prompt for the "foreach" command, do not type a "?".

4. To install the DAAC F77 version of the toolkit, follow the directions below:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin/daac_toolkit_f77/TOOLKIT
% bin/INSTALL -daac                  (32-bit, FORTRAN 77)
% bin/INSTALL -sgi64 -daac           (64-bit, FORTRAN 77)
```

5. To install the DAAC F90 version of the toolkit, follow the directions below:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin/daac_toolkit_f90/TOOLKIT

% bin/INSTALL -f90 -fc_path /usr/local/bin -daac -NAG
    (32-bit, FORTRAN 90 (NAG))

% bin/INSTALL -f90 -fc_path /bin -sgi64 -daac
    (64-bit, FORTRAN 90)
```

6. To install the SCF F77 version of the toolkit, follow the directions below:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin/scf_toolkit_f77/TOOLKIT

% bin/INSTALL                        (32-bit, FORTRAN 77)
```

7. To install the SCF F90 version of the toolkit, follow the directions below:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin/scf_toolkit_f90/TOOLKIT

% bin/INSTALL -f90 -fc_path /usr/local/bin
    (32-bit, FORTRAN 90 (NAG))
```

8. The installation script will ask if you want HDF (NCSA) installed, hit the return key to the three (3) prompts. If the script can not find the HDF distribution tar file, it will prompt for the path where the tar file is located. The script will display the default path where HDF will be installed. Hit the return key or enter the directory path if different from the default. The script will display a "last chance" confirmation, again hit the return key. The HDF installation script will then run. At the completion of the HDF installation, the script will ask if you want HDFEOS installed, hit the return key. If the script can not find the HDFEOS distribution tar file, it will prompt you for the path where the tar file is located. The script will display the default path where HDFEOS will be installed. Hit the return key or enter the directory path if different from the default. The script will display a "last chance" confirmation, again hit the return key. After the HDFEOS installation completes, the TOOLKIT installation script will automatically run.

The TOOLKIT installation will take some time and should finish with a message like the following:

"INSTALL-Toolkit completed successfully at <date/time>"

9. Install the AA-data by entering the following:

```
% bin/INSTALL-AAdata
```

10. The AAdata install script will display the default tar file name, hit the return key to accept. If the script can not locate the tar file, it will prompt for the directory path where it is located. Enter the path where the tar file is located. The script will then prompt for the path where the AAdata will be installed. Enter the path where you want the data installed (/usr/ecs/Rel_A/CUSTOM/bin/AAdata). The script then prompts for confirmation, enter "yes". After the script "untars" the AAdata, it will prompt whether you want to patch the PCF files or not, enter "no".

Note: This means that the PCFs will need to be updated manually. The PCFs are located under the TOOLKIT/runtime/ARCH directory (where ARCH is sgi, sgi64, etc.) and are called PCF.relA. Use an editor and change the first occurrence of "~/runtime" to the directory path where the AAdata is stored.

11. Every PCF can be changed at once by entering the following commands:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin

% foreach file ( `find *toolkit*/TOOLKIT/runtime -name
  "PCF.relA" -print` )

? sed -e "74s%~/runtime%/usr/ecs/Rel_A/CUSTOM/bin/AAdata%"
   $file > /usr/ecs/Rel_A/CUSTOM/bin/tmp

? mv /usr/ecs/Rel_A/CUSTOM/bin/tmp $file

? end
```

Note: The question mark ("?") is a prompt for the "foreach" command, do not type a "?".

B.5 Installation Instructions for the DAAC Toolkit (SUN)

1. Remotely login to the DAAC target machine by typing the following:

```
% rlogin <full machine name and domain or IP address> -l <username>
```

2. Change directory to the target directory and verify that the directory/partition has at least 500Mb of free space by typing the following:

```
% cd /usr/ecs/Rel_A/CUSTOM/bin

% df -k .
```

3. Make the toolkit directory and 'untar' the toolkit by typing the following:

```
% mkdir daac_toolkit_f77

% cd daac_toolkit_f77
```

```
% zcat <directory path>/RELA_TOOLKIT_031997.tar.Z | tar xvf -
```

4. To install the DAAC F77 version of the toolkit, follow the directions below:

```
% cd TOOLKIT
% bin/INSTALL -daac                    (32-bit, FORTRAN 77)
```

5. The installation script will ask if you want HDF (NCSA) installed, answer “no” to the prompt. The HDF (NCSA) and HDFEOS installation scripts will be skipped and the TOOLKIT installation script will automatically run.

   The TOOLKIT installation will take some time and should finish with a message like the following:

   “INSTALL-Toolkit completed successfully at <date/time>“

B.5.1 Install and Configure SSI&T on the AIT Server and Workstation

The SSI&T software is used to perform SSI&T related functions on the Pre-Release B Testbed. The application software for this must be installed onto the two AIT machines in order to perform SSI&T. The following steps describe this process. These instructions must be performed on BOTH AIT machines.

B.5.1.1 Install the SSI&T software:

1. Create a setup directory:

```
% cd /usr/ecs/Rel_A/CUSTOM
% mkdir setup
% chmod 777 setup
```

2. Create a data directory for SSI&T specific data items. (if it doesn't exist already.):

```
% cd /usr/ecs/Rel_A/CUSTOM
% mkdir data
% chmod 777 data
```

3. Create a test directory to hold all test specific data. (if it doesn't exist already.):

   Note: This directory will be deleted at the conclusion of the installation process at each site.

```
% cd /usr/ecs/Rel_A/CUSTOM
% mkdir test
% chmod 777 test
```

4. Verify that all I&T data is untarred to /usr/ecs/Rel_A/CUSTOM/test:

```
% ls /usr/ecs/Rel_A/CUSTOM/test/d2s6/*
```

   Note: Each of the following sub-directories should exist: /PGE1aT, /PGE12aF, /DPREP, /SETUP, /desc. If space provisions are not adequate to copy all I&T test data to the /usr/ecs/Rel_A/CUSTOM/test directory, then all future references to /usr/ecs/Rel_A/CUSTOM/test will have to be changed to the actual location of the untarred I&T test data.

5. Copy the SSI&T setup.csh script to the install machine environment:

   ```
   % cp /usr/ecs/Rel_A/CUSTOM/test/d2s6/SETUP/.ssit-setup
   /usr/ecs/Rel_A/CUSTOM/setup
   % chmod 775 /usr/ecs/Rel_A/CUSTOM/setup/.ssit-setup
   ```

6. Edit the .ssit-setup script to include the name of the sybase server:

   - find the line setenv DSQUERY <sybase_server_host>_srvr
   - edit this line to replace <sybase_server_host> with the actual name of the sybase server for the PDPS/SSIT database. For example: In the GSFC DAAC configuration the sybase server is plng2sun_srvr therefore the command in the .ssit-setup csh script would read:

     "setenv DSQUERY plng2sun_srvr" for the GSFC configuration.

   - uncomment this setenv command in .ssit-setup.

7. Copy the testbed.csh script to the install machine environment:

   ```
   % cp /usr/ecs/Rel_A/CUSTOM/test/d2s6/SETUP/testbed.csh
       /usr/ecs/Rel_A/CUSTOM/setup
   ```

8. Edit the testbed.csh script to include the name of the IMF DataServer:

   - find the line - setenv DataServer <DataServer_directory_name>
   - edit this line to replace <DataServer_directory_name> with the actual name of the IMF DataServer at the install site. For example: In the GSFC DAAC configuration the DataServer directory name is /net/sprg1sgi/vola/GSFC/archive. therefore the command in the testbed.csh script would read "setenv DataServer /net/sprg1sgi/vola/GSFC/archive" for the GSFC configuration.
   - uncomment this setenv command in testbed.csh

9. *In order for the installation to work*, environment variables must be set for SSIT, SDP toolkit, Autosys, SYBASE and the IMF Archive on the SUN machine. Source .ssit-setup (.ssit-setup will source testbed.csh from within the shell script)

   ```
   % source /usr/ecs/Rel_A/CUSTOM/setup/.ssit-setup
   ```

10. Move the INSTALL script to the CUSTOM directory and run it:

    ```
    % cd /usr/ecs/Rel_A/CUSTOM/bin/DPS
    % mv DpAtINSTALL.sh /usr/ecs/Rel_A/CUSTOM
    % cd /usr/ecs/Rel_A/CUSTOM
    % DpAtINSTALL.sh
    ```

11. Respond to the INSTALL program prompts. The script prompts you for:

    - the name of the default printer
    - name of the IDL (Interactive Display Language) installation directory.
    - directory where PGE SCIENCE metadata ODL files will reside
    - directory where ESDT SCIENCE metadata ODL files will reside
    - directory for temporary file creation

- name of the PDPS/SSIT database
- name of the PDPS/SSIT database server
- name of the PDPS/Production database
- name of the PDPS/Production database server

Respond to the program prompts with the following responses:

```
**************************************
*    SSIT MANAGER INSTALLATION *
**************************************


**************************************
*****NOTE: SDP TOOLKIT
**************************************

The SSIT Manager uses the SDP Toolkit internally;
it will seek toolkit files under the directory
/usr/ecs/Rel_A/CUSTOM/bin/daac_toolkit_f77/TOOLKIT.


**************************************************
*****MAKING AN INTERNAL PCF
**************************************************

SSIT Manager uses a SDP Toolkit Process Control File (PCF)
internally to keep track of executables, other file names,
and paths it uses.

The PCF is a text-editable file that you may change some of
the values in.

A copy of the template SSIT Manager PCF will be created for you now.
and named DpAtMgrInternal.pcf.'hostname' in the /usr/ecs/Rel_A/CUSTOM
directory.
Note: A Customized copy of this pcf file is available and stored in
      /d2s6/<pge#>/DpAtMgrInternal.pcf.plng2sun
      These pcf's contain customizations which specify the unique SSIT manager
      checklist to access and it's respective log file database.
      (For example: Each PGE has it's own checklist and log file database which is
      accessed prior to running each pge)

This file is to be used as a master for users to copy over
and modify.

In order to enable this, please:

Enter the name of your default printer: <enter the default printer name>
Note: For GSFC DAAC, use smcp1 or gsfcp1.

Enter the name of the Interactive Display Language (IDL) root directory:
   /usr/ecs/Rel_A/COTS/idl_4/bin
```

Enter the name of the PGE SCIENCE metadata ODL file directory:
/usr/ecs/Rel_A/CUSTOM/test

Enter the name of the ESDT SCIENCE metadata ODL file directory:
/usr/ecs/Rel_A/CUSTOM/test
Note: The environment variable set for this directory is initially set to the /usr/ecs/Rel_A/CUSTOM/test directory. However, it is changed by the PGE .setup file that is sourced before registering the particular PGE that will be worked on. (re: /d2s6/DPREP/.DREP-setup, /d2s6/PGE1aT/.PGE1aT-setup, /d2s6/PGE12aF/.PGE12aF-setup)

Enter the name of the temporary directory (e.g. /tmp):
/tmp

Enter the name of the PDPS/SSIT database (e.g. pdps_db):
<enter PDPS/SSIT database name>
Note: In the GSFC configuration the PDPS/SSIT database name is "pdps_db_ops"

Enter the name of the PDPS/SSIT database server (e.g. aitg2sun_srvr):
<host_name>_srvr
Note: In the GSFC configuration the database server name is plng2sun_srvr

Enter the name of the PDPS/Production database (e.g. pdps_db_xxx) :
<enter PDPS/SSIT database name>
Note: In the GSFC configuration the PDPS/SSIT database name is "pdps_db_ops"

Enter the name of the PDPS/Production database server (e.g. plng2sun_srvr) :
<host_name>_srvr
Note: In the GSFC configuration the database server name is plng2sun_srvr

Overwrite DpAtMgrInternal.pcf.plng2sun ? (y/[n])
y

Your PCF has been written to DpAtMgrInternal.pcf.plng2sun

****Note: The INSTALL script performs the following:
-- Copies over some needed internal error message files to the SDP Toolkit error message directory.

-- Copies over the template SSIT Manager internal PCF ($DPATMGR_HOME/data/DPS/DpAtMgrInternal.pcf.template) to another file ($DPATMGR_HOME/DpAtMgrInternal.pcf.<hostname>), which is customized for the DAAC environment, through setting of the SSIT and IDL install directory name and default printer name.

-- Copies over the template SSIT Manager environment variables file ($DPATMGR_HOME/bin/DPS/DpAtEnv.csh.template) to a file customized for this ($DPATMGR_HOME/bin/DPS/DpAtEnv.csh),

through setting of the install directory name, SSIT machine type, and default printer name.

-- Copies over the template PGE promotion database script ($DPATMGR_HOME/bin/DPS/DpAtPromotePgeDbEntry.sh.template to a file customized for this DAAC ($DPATMGR_HOME/bin/DPS/DpAtPromotePgeDbEntry.sh), through setting of the SSIT and Production database names and server names.

```
************************************************
*****ENVIRONMENT SETUP
************************************************
```

Note: The following instructions that are issued by the INSTALL script have already been performed. They are all included in the /d2s6/SETUP/.ssit file that is sourced to setup the SSIT environment. The installer does not need to make any of the edits to the .cshrc mentioned below.

```
************************************************
*Next you need to set up your environment.
*Do this by editing your .cshrc file.
*
*Add the line
*source /data1/CUSTOM/bin/DPS/DpAtEnv.csh
*
*Make sure you do this AFTER the lines that set
*the SDP Toolkit environment variables.
*
*Finally, source your /home/lmagday/.cshrc file for use in the
*current login session.
************************************************
```

If the "INSTALLATION SUCCESSFUL" message is received, then the SSIT INSTALL script has been run successfully and the initial installation is now complete.

12. Process framework configuration files

- These files are delivered in template form.
- All SSIT programs use Process Framework.
- There is one config file for each SSIT application that uses Process Framework.
- At installation, all config files must be edited to enable the DAAC environment.
- Make sure a copy of all Config files required by SSIT programs exist in the directory /usr/ecs/Rel_A/CUSTOM/cfg.

  %ls /usr/ecs/Rel_A/CUSTOM/cfg/DpAt*<DAAC>.CFG

- Make sure each of these files appears:
  DpAtAA_<DAAC>.CFG
  DpAtBA_<DAAC>.CFG

DpAtBG_<DAAC>.CFG
DpAtCS_<DAAC>.CFG
DpAtDB_<DAAC>.CFG
DpAtDO_<DAAC>.CFG
DpAtDS_<DAAC>.CFG
DpAtIA_<DAAC>.CFG
DpAtID_<DAAC>.CFG
DpAtIE_<DAAC>.CFG
DpAtIS_<DAAC>.CFG
DpAtMG_<DAAC>.CFG
DpAtPC_<DAAC>.CFG
DpAtPL_<DAAC>.CFG

Each configuration file will have to be customized to the respective DAAC's hardware configuration. Edit each:

- CFG file to set the correct SECURITY ATTRIBUTES
- DataFileName and AppStrtNum which are valid at the DAAC.

The current settings for these attributes at the GSFC DAAC are:

- DataFileName = /usr/ecs/Rel_A/CUSTOM/cfg/data
- AppStrtNum = 51

The config files always reside at system level. There is only one copy of each config file. Edit each:

- CFG file to set the correct SECURITY ATTRIBUTES
- DataFileName and AppStrtNum which are valid at the DAAC.

Edit some: CFG files to set the correct UR of the data server itself, DataServerUr. The current settings for this attribute at the GSFC DAAC are:

DataServerUr = UR:15:DsShSciServerUR:32:/net/sprg1sgi/vola1/GSFC/archive and is only provided in the Config files:

- DpAtID_GSFC.CFG
- DpAtIE_GSFC.CFG
- DpAtIS_GSFC

Note: Directions on how to run each program using Process Framework arguments is given in on-line help.

13. Other setup checkouts:

    Verify that all CUSTOM, COTS, and Freeware is accessible from the user's path. No modifications to the user's path are done during SSIT installation.

    Custom S/W:

    SDP Toolkit (any version)

    PDPS PLANG subsystem, including initialization of PDPS/SSIT database using Sybase, and PlSubsEdit Dsrv Subscription Editor

    PDPS PRONG subsystem

Science Data Server
EOSView
Process Framework

COTS and Freeware:

Sybase
Sparcworks
Wabi (MSWindows emulator)
Netscape
xddts
FORCHECK
IDL (Interactive Display Language)
DCE

Freeware

ghostview
Adobe Acrobat
xdiff
emacs
xedit
Sun runtime graphics libraries

++
+
+
The following instructions are provided for users of the SSIT software.
+
++
+

1. Internal SSIT Manager Process Control File ($DPATMGR_HOME/DpAtMgrInternal.pcf.<hostname>).

   This file contains filenames for running SSIT Manager. You may or may not need to change entries in this file as you wish. Decide on a name and location for the customized versions of this PCF. The current location for the customized versions of the pcf (for GSFC) are:

   /d2s6/DPREP, /d2s6/PGE12aF, /d2s6/PGE1aT

   (Copies of these already exist and do not need to be recreated. For test purposes they are untarred to /usr/ecs/Rel_A/CUSTOM/test at the install site, provided there sufficient disk space.)

2. SSIT Environment Variables (ECS_HOME, PGSHOME, PGSMSG, PGS_PC_INFO_FILE, DPATMGR_HOME, LD_LIBRARY_PATH, DSQUERY).

   The environment variables required to access the SSIT Manager and other SSIT software are obtained by sourcing /d2s6/SETUP/.ssit-setup. and /d2s6/<pge>/.<pge>-setup

Caution: Do not do this now!!

Check the specific instructions for running each PGE. The environment variables required are set via steps invoked from the *instructions.log. The instruction log names for the I&T PGE'sare provided for reference.

For example:
/d2s6/DPREP/DPREP_instructions.log, /d2s6/PGE1aT/PGE1aT_instructions.log, /d2s6/PGE12aF/PGE12aF_instructions.log)

3. Miscellaneous Resource Files

   Check to see if the application resource files for GUI font, colors, etc. exist. The application resource files are: XDpAtMgr, XBadfunc, Emacs, DpAtMgrCheckHdfFile and XDiff.

   %ls $ECS_HOME/CUSTOM/data/COMMON/app-defaults/XDpAtMgr
   %ls $ECS_HOME/CUSTOM/data/COMMON/app-defaults/XBadfunc
   %ls $ECS_HOME/CUSTOM/data/COMMON/app-defaults/Emacs
   %ls $ECS_HOME/CUSTOM/data/COMMON/app-defaults/XDiff
   %ls $ECS_HOME/CUSTOM/data/COMMON/app-defaults/DpAtMgrCheckHdfFile

   If the files don't exist, copy them over to the app-defaults directory.

```
%cp $DPATMGR_HOME/data/DPS/XDpAtMgr
   $ECS_HOME/CUSTOM/data/COMMON/app-defaults
%cp $DPATMGR_HOME/data/DPS/XBadfunc
   $ECS_HOME/CUSTOM/data/COMMON/app-defaults
%cp $DPATMGR_HOME/data/DPS/Emacs $ECS_HOME/CUSTOM/data/COMMON/app-
   defaults
%cp $DPATMGR_HOME/data/DPS/XDiff $ECS_HOME/CUSTOM/data/COMMON/app-
   defaults
%cp $DPATMGR_HOME/data/DPS/DpAtMgrCheckHdfFile.defaults
   $ECS_HOME/CUSTOM/data/COMMON/app-defaults
```

   Note: You may edit these files if you wish to change the fonts or colors of the respective programs.

   ("XDpAtMgr" applies to all SSIT Manager GUIs except the Prohibited Function GUI, which is handled by XBadfunc; the emacs text editor, Emacs; xdiff ASCII file comparison tool, and XDiff.)

4. Change the internal pcf entries to point to the correct process framework configuration files and pdps database for the dbupdategui program

   The PDPS operational metadata database update GUI program accesses the PDPS database. This means that this program needs four Process Framework arguments.

   PDPS Database Name: The entry for this program in the delivered PGE specific PCF's is
   630|DpCAtMgrSSITOpnlMdUp|DpAtOpDbGui ConfigFile /usr/ecs/Rel_A/CUSTOM/cfg/DpAtDO_<DAAC>.CFG ecs_mode ops

   where "ops" is the appended value for the PDPS/SSIT Database Name. For example, the database name at GSFC DAAC is "pdps_db_ops".

If at another site the database name is not "pdps_db_ops", then the value specified as the last argument in line 630 must match the database name. For example: If the database name is "pdps_something" then at the end of line 630 "ops" should be changed to "something". Edit the PGE specific PCF file to conform to the DAAC you are installing at (each PGE specific PCF can be found in the directory that corresponds to each PGE that is untarred to /usr/ecs/Rel_A/CUSTOM/test at install time.)

5. MS Windows Emulator Setup (WABI)

   Note: This section to be provided. It is not needed for PGE registration operations.

6. Launch The SSIT Manager GUI and Begin PGE Registration

   Refer to the instructions in each PGE directory.
   DPREP - /net/plng2sun/d2s6/DPREP/DPREP_instructions.log
   PGE1aT - /net/plng2sun/d2s6/PGE1aT/PGE1aT_instructions.log
   PGE12aF - /net/plng2sun/d2s6/PGE12aF/PGE12aF_instructions.log
   Note: This is where the environment variables are all set for each PGE run.

B.6 Install and Configure CMI *[Optional]*

The CMI software is used to allow custom application processes to access the PDPS database with an Application Key. This key, when entered into the CMI GUI, generates a username and password for the IP group in which the application runs. Subsequently, when the application accesses the database, the username and password are checked by the CMI software for validity. If the combination is valid, the application is allowed access to the database, otherwise an error is generated. The Pre-Release B Testbed software comes with a pre-generated CMI username and password. If the site System Administration personnel deem a potential security breach, they can change the username and password by performing the following steps.

1. Log into the DAAC MSS Workstation.
2. Set default to the directory that contains the CMI application:

   % cd /usr/ecs/Rel_A/CUSTOM/bin/CSS
3. Run the CMI application:

   % EcScAuthnProg
4. The CMI GUI will appear. Enter the seed as requested. Remember the seed # for future reference.
5. The software will refresh the GUI with a username and password.
6. Ask the System Administrator to add the username/password to the database as a future user.

   Note: Add them to the database BEFORE running the database setup scripts**.**
7. The seed # must be added to each .CFG file of the application that uses CMI. These are applications that access the database at some time during operations of the DAAC.
8. Edit each file by inserting the following line:

   > AppStrtNum = <*seed #*>

> DataFileName = /usr/ecs/Rel_A/CUSTOM/data/CSS/data

9. Make sure that only one occurrence of these parameters exist within the .CFG files.

B.7 Install and Configure the Database

In order for all Pre-Release B Testbed applications to exchange information between themselves, a database must be established. This section describes the steps required to configure the PDPS database after the DBO has created it.

Note: These steps MUST be performed using an account with a "SA" privileges.

1. Log into the machine that acts as the PDPS database server. Find out the database name from the DBO. The name should be "pdps_db_<*role*>" where "role" is "ops".
2. Set default directory to where the SQL configuration scripts are located:

   ```
   % cd /usr/ecs/Rel_A/CUSTOM/data/PLS
   ```

3. To create all PDPS tables edit the script pdps_phase3_schema.sql. Change the following:

   > change "use pdps_phase3" to "use <*database name*>"

4. Run the script pdps_phase3_schema.sql and capture the output to a log file:

   % isql -U<*sa account name*> -P<*sa account password*> -ipdps_phase3_schema.sql -o<*output directory path/log file name*>

5. Edit the script grant_pdps_phase3 to grant access permission on the database to users:

   > change "use pdps_phase3" to "use <*database name*>"

   > change "sa_username" to "<*dbo username*>"

   > change "sa password" to "<*dbo password*>"

   > change the existing usernames to actual users of the Testbed. Be sure to include AutoSys and the username obtained from running the CMI application in this step.

6. Run the script grant_pdps_phase3 and capture the output to a log file:

   ```
   % grant_pdps_phase3 > <output directory path/log file name>
   ```

7. Edit the following store procedures:

   - procGetComment.sql
   - procGetResources.sql
   - procInsertGroundEvents.sql

   > change "use pdps_phase3" to "use <*database name*>" for the three files

8. Run the store procedures and capture the output to a log file:

   ```
   % isql -U<sa account name> -P<sa account password> -
   iprocGetComments.sql -o<output directory path/log file name>

   % isql -U<sa account name> -P<sa account password> -
   iprocGetResources.sql -o<output directory path/log file name>
   ```

```
% isql -U<sa account name> -P<sa account password> -
iprocInsertGroundEvents.sql -o<output directory path/log file
name>
```

9. Edit the script grant_pdps_phase3_procedure to execute the store procedures:

   > change "use pdps_phase3" to "use <*database name*>"

   > change "sa_username" to "use <*dbo name*>"

   > change "sa_password" to "use <*dbo password*>"

   > change the existing usernames to actual users of the Testbed. Be sure to include AutoSys and the username obtained from running the CMI application in this step.

10. Run the script grant_pdps_phase3_procedure and capture the output to a log file:

```
% isql -U<sa account name> -P<sa account password> -
igrant_pdps_phase3_procedure            -o<output directory
path/log file name>
```

11. Edit the following files to load initial data into the database:

    - load_activities.sql
    - load_dataserver_resource.sql

    > change "use pdps_phase3" to "use <*database name*>" for both files

12. Load initial data into the PDPS database:

```
% isql -U<sa account name> -P<sa account password> -
iload_activities.sql -o<output directory path/log file name>

% isql -U<sa account name> -P<sa account password> -
iload_dataserver_resource.sql              -o<output directory
path/log file name>
```

13. Edit the AutoSys triggers:

    - tr_u_JOB.sql
    - tr_u_JOB_STATUS.sql

    ```
    % cd <directory where triggers were delivered>
    ```

    > change the PDPS database server name to the site database server name.

    > change the PDPS database name to the site database name.

14. Verify that the AutoSys account is in the pdps_group group_name and that its default login database is <*database name*>:

    - access isql by typing:

      ```
      % isql -U<database username> -P<password>
      ```

      1> use <*database name*>

      2> go

      1> sp_helpuser

      2> go

- the user AutoSys should have the above mentioned attributes.
  1> exit

  2> go

B.8 Create the Runtime Directory on the Science Processor

The runtime directory must be created in order to allow proper execution of a PGE on the Science Processor.

1. Verify Environment Variables, etc.
2 Bring up applications

Appendix C. Special Operating Instructions

The README files available with Testbed have not been verified. However, it does contain valid and useful information concerning the installation instructions and the NCRs fixed by this delivery.

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Appendix D. User Feedback Procedures

Feedback from the Users

Collating user feedback is one of the primary goals of Pre-Release B. Collected user feedback will be provided directly to the subsequent release teams for further assessment and action. Several feedback channels will be provided for effective collection of data.

URDB

Link to URDB (TBD).

Non Conformance Reports (NCR)

NCRs for Testbed are submitted using the EDF DDTS database which tracks the NCRs. The access is allowed only to authorized ECS users. The procedure for submitting NCRs is explained in detail in the Project Instruction (PI) SD-1-014, Software Nonconformance Reporting.

Feedback to the users

Keeping the users of the system informed about the status and operational aspects of the system is also as important as collecting feedback from the users. Consistent with this approach, users will be able to get data from the following channel:

WEB Page

Information will be posted to the bulletin board at http://newsroom.hitc.com/ccrdex/html

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Appendix E. Operating System Patches

The Sun Operating System patches (58) for the following hosts *aitl2sun, plnl1sun, plnl2sun* are:

101242-10	101922-15	102024-02	102070-01	102286-02	102680-04	103011-05
101752-23	101925-02	102030-06	102108-02	102292-02	102693-03	103070-01
101829-01	101933-01	102038-02	102138-01	102303-05	102704-02	103250-01
101878-13	101945-42	102039-04	102165-03	102446-01	102711-01	103706-01
101879-01	101959-07	102042-05	102209-01	102450-02	102741-01	
101880-10	101973-24	102044-01	102216-07	102479-02	102769-03	
101907-12	101977-04	102048-06	102218-03	102521-01	102781-03	
101910-14	101987-02	102057-34	102224-08	102656-01	102922-03	
101920-03	102011-03	102066-11	102273-01	102664-01	102960-01	

The Sun Operating System patches (57) for the following host *aitl1sun* are identical to the list above excluding patch 101910-14. Also, the patches (59) for hosts *mssl1sun* and *mssl3sun* are the same as the list above with one additional patch for each host.

- mssl1sun - 103290-04
- mssl3sun - 102283-01

The SGI IRIX System patches (22) for the following host *acml4sgi* are:

SG0000166	SG0001157	SG0001295	SG0001476
SG0000204	SG0001180	SG0001314	SG0001477
SG0000813	SG0001191	SG0001315	SG0001502
SG0001079	SG0001264	SG0001327	SG000 1518
SG0001136	SG0001268	SG0001391	
SG0001143	SG0001283	SG0001412	

The SGI IRIX System patches (12) for the following host *sprl6sgi* are:

SG0001278	SG0001437	SG0001505
SG0001289	SG0001471	SG0001510
SG0001364	SG0001483	SG0001536
SG0001397	SG0001488	SG0001609

The HP System patches (32) for the following host *cssl1hp* are:

PHCO_4439	PHKL_4334	PHNE_6707	PHSS_5467	PHSS_7691
PHCO_5015	PHKL_6869	PHNE_6989	PHSS_5902	PHSS_7751
PHCO_6225	PHNE_4003	PHNE_7252	PHSS_6155	PHSS_8288
PHCO_6861	PHNE_4487	PHNE_8113	PHSS_6352	PHSS_8289
PHCO_7747	PHNE_4563	PHSS_4389	PHSS_6921	
PHKL_3076	PHNE_6013	PHSS_4563	PHSS_6922	
PHKL_4269	PHNE_6443	PHSS_5465	PHSS_6923	

The HP System patches (31) for the following host *mssl4hp* are identical to the list above excluding PHSS_4563.

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Abbreviations and Acronyms

CC	Change Control
CCB	Change Control Board (Hughes Convention)
CCR	Configuration Change Request
CCSDS	Consultative Committee for Space Data Systems
CDRL	Contract Deliverable Requirements List
CERES	Clouds and Earth Radiant Energy System
CI	Configuration Item
CLI	Command Line Interface
CLTU	Command Link Transmission Unit
CM	Configuration Management
CMO	Configuration Management Organization
COTS	Commercial off-the-shelf Software
CSC	Coordinate System Conversion
CSCI	Computer Software Configuration Item
CSS	Communication Subsystem
DAAC	Distributed Active Archive Center
DCE	Distributed Computing Environment
DCN	Document Change Notice
DDSRV	Document Data Server (CSCI)
DDTS	Distributed Defect Tracking system
DID	Data Item Description
DMS	Data Management Subsystem
DPS	Data Processing Subsystem
DSS	Data Server Subsystem
ECL	ECS Command Language
ECS	EOSDIS Core System

EDHS	ECS Data Handling System
EDOS	EOS Data and Operations System
EOC	EOS Operations Center
EOS	Earth Observing System
EOSDIS	EOS Data and Information System
ESDIS	Earth Science Data and Information System
ftp	File Transfer Protocol
GSFC	Goddard Space Flight Center
GUI	Graphical User Interface
HAIS	Hughes Applied Information Systems
HITC	Hughes Information Technology Company
I&T	Integration & Test
I/O	Input/Output
IMD	Information Management System
IP	International Partner
IOS	Interoperability Subsystem
LaRC	Langley Research Center
M&O	Maintenance and Operation
MET	Metadata
MSS	Management Subsystem
NASA	National Aeronautics and Space Administration
NCC	Network Control Center (GSFC)
NCR	Nonconformance Report
NCSA	National Center for Supercomputer Applications
PAS	Planning and Scheduling
PDB	Project Data Base
PDR	Preliminary Design Review
PI	Project Instruction or Principal Investigation
QA	Quality Assurance

RCM	Real-Time Contact Management Subsystem
RMS	Resource Management Subsystem
RRDB	Recommended Requirements Database
SCF	Science Computing Facility
SDP	Science Data Production
SDPS	Science Data Processing Segment
SDPF	Science Data Processing Facility
SNMP	Simple Network Management Protocol
SSI&T	Science Software Integration and Test
TBD	To Be Determined
TL	Team Leader
TRMM	Tropical Rainfall Measuring Mission (joint US - Japan)
URL	Universal Research Locator
US	United States
WWW	World Wide Web

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